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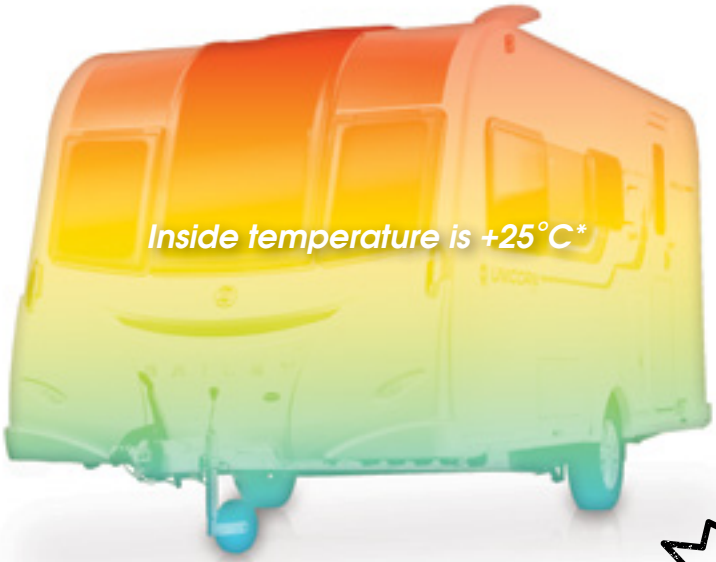

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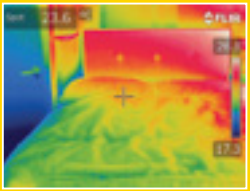

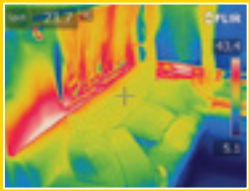

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Address: _____
_____
_____
_____
_____

Telephone number: _____

Habitation key number: _____

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Retailer's address: _____
_____
_____
_____
_____

Telephone Number: _____

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THE SERVICE MANUAL

1. INTRODUCTION

Congratulations on the purchase of your Bailey caravan. We would like to welcome you to the prestigious rank of Bailey owner. We are confident that this vehicle will give you many years of enjoyment.

This handbook has been designed to enable you to obtain the maximum benefits and pleasure from your caravan. Its information and hints will be beneficial and help to protect your investment whether you are a new or experienced caravan owner.

Please be aware that certain sections are only applicable to certain models.

Information leaflets and literature on safe operation of appliances and equipment fitted to your caravan are included in the Bailey information pack. Please read these carefully prior to use.

This manual covers the essential parts of your caravan, however it is not exhaustive. Further more detailed information can be obtained from individual manufacturers regarding their products. Located within your caravan is a blue Bailey document wallet. Within in this wallet you will find detailed instruction manuals for each of your appliances. For operating instructions you should refer to said manuals.

Failure to observe recommendations or precautions may lead to incorrect operation of equipment. This may cause subsequent risk to occupants.

Regular maintenance is necessary to ensure trouble-free usage of your caravan. Your Bailey retailer is equipped to offer service facilities, repair work and any spare parts that you may require.
Always consult your supplying retailer before additional equipment is fitted to ensure the location of appropriate structural support.

Retailers are not agents of Bailey and have absolutely no authority to bind Bailey by any express or implied undertaking or representation.

Happy Touring!

To enable Bailey and our retailer partners to deal with your queries efficiently, always quote your caravan's vehicle identification number (VIN) which can be found on the offside chassis member and is also etched onto all major windows.

It is the Bailey policy to constantly improve their vehicles, so while all illustrations and descriptive matter in this handbook are intended to give a general idea of the caravan and are correct at the time of going to press, changing market and supply situations may prevent us from maintaining the exact specification details of this handbook. Bailey therefore reserve the right to alter the specification at any time without prior notice.
Bailey offer a variety of customer uses and while each vehicle is designed to feature the optimum storage, seating, sleeping and fluid capacities, it is the customer's responsibility to select the correct loads without exceeding the weight capabilities of your chosen towing vehicle. These weights can be found on the weight plate located outside your vehicle next to the exterior door and on the Approval Label inside the gas locker.

Safety
This handbook contains the information that you will require for your safe enjoyment of your caravan. All the information contained herein is important. However, to draw your attention to specific items we have prefixed them with the following symbols to indicate a warning, caution or note respectively.

WARNINGS are instructions that if ignored can cause the user(s) physical harm.

CAUTIONS are instructions that if ignored can result in damage to the caravan.

NOTES are reminders that should be heeded.

IMPORTANT SAFETY NOTES:
To ensure all the occupants of your caravan enjoy a safe and relaxed environment please observe the following.

- Ensure all the occupants are aware of their escape routes in the event of a fire.
- Always keep escape routes and exit points clear from obstruction and debris.
- Provide one dry powder fire extinguisher of an approved type or complying with ISO 7465 Bsi 5423 of at least 1kg (2.2lb) capacity by the main door, and a fire blanket next to the cooker. Familiarise yourself with your fire extinguisher and the local fire precaution arrangements.
- Your tourer is a compact living environment, and appliances should be treated in the same way as those in the home to prevent any accidental burning or scalding. Keep young children away from hot surfaces.
- Your tourer is supplied with a EN1645 approved caravan step. Always take care when entering or exiting your tourer, ensuring that the step is securely located and safe before use. Do not use a damaged or broken step.
- The torque setting of the caravan's wheel bolts should be checked 30 miles after collection from the caravan retailer. Thereafter, wheel bolts should be checked before every journey. The torque settings and tightening sequence are detailed on page 21 of this handbook.
- Never attempt to lift the tow hitch with your hands when hitching the caravan to the tow vehicle or at any other time. Always raise or lower the tow hitch by winding the handle on the jockey wheel.
- Always ensure that the green button located on the leading edge of the coupling head is raised before towing.

Driving Licences
A driver passing a test after 1 January 1997 is restricted to a car/caravan combination not exceeding 3,500kg (maximum laden weight, and where the maximum loaded weight of the caravan does not exceed the unladen weight of the car. New drivers outside these rules will need to take an additional driving test. Existing drivers who passed a test before 1 January 1997 are not affected.

2. STATEMENT OF CONFORMITY

All Bailey caravans have been certified by the National Caravan Council for compliance with UK and European standards and legislation along with industry codes of practice relating to health and safety issues. The approval process covers the testing and inspection of critical areas of the product from fire safety, weights and dimensions, to gas, electrics and ventilation. Every Bailey caravan carries the "NCC Approved Caravan" badge. The NCC conducts unannounced inspections at their members' factories to ensure continued compliance.
NCC approval gives you peace of mind that your caravan is legal and safe.

Your Bailey caravan is European Whole Vehicle Type approved.
This assures you that your caravan meets all European regulations and has been constructed to conform to these rigorous standards for both manufacturing and product safety. This allows you to register your vehicle in another European country. Your certificate of conformity is in the document pack provided with your vehicle.

Inside your caravan is a certificate stating that the model is type approved. If for any reason you need another certificate your Bailey Caravan retailer is responsible for accessing one through the NCC system. Please refer back to your retailer for additional copies.

3. WARRANTY

If you have a problem or enquiry relating to your caravan please follow these steps:
Check the handbooks.
Contact your supplying retailer for assistance.
The following suppliers provide a direct aftersales service. Please contact them directly:

AL-KO
AL-KO Kober Limited
South Warwickshire Business Park
Kineton Road
Southam
Warwickshire
CV47 0AL
Fax: 0044 (0)1926 818562
E-Mail: mail@al-ko.co.uk

DOMETIC
Dometic UK Ltd
Dometic House
The Brewery
Blandford St Mary
Dorset
DT11 9LS
Telephone: 0044(0)844 626 0130
E-mail: technical@dometic.co.uk

It is with the retailer that the purchaser's Contract of Sale exists and consequently Bailey Caravans cannot enter into any discussions with the purchaser.

All Bailey products are classified as "portable". All work under warranty requires that the caravan be delivered to and collected from the Bailey retailer.

While every effort is made within this handbook to accurately reflect anddescribe our home market caravans (those purchased and stored in the UK) our policy of continued improvements and change in market and supply conditions mean that we reserve the right to alter specification without further notice. Some materials used in the production of our caravans can result in variations to the figures quoted in respect of measurements and weights.

Touring Caravan Warranty Cover
Total customer satisfaction is our top priority at Bailey. Our quality ethos extends to the aftersales service and market-leading manufacturer's warranty package that comes with every new Bailey touring caravan. This not only ensures long-term peace of mind but also enhances the re-sale value of your investment.

6 Year Bodyshell Integrity Guarantee
Bailey Alu-Tech caravans are covered by a six (6) year Bodyshell Integrity Guarantee from the initial date of purchase. This cover extends to any structural degradation to the bodyshell that arises as a result of water ingress through any permanently sealed seam or joint with the exception of exclusions stated in the terms and conditions.
The following item is covered for three (3) years from the date of first registration

- Colour fastness of caravan bodyshell panels.

Warranty Extension
An additional four (4) year extension to the standard Bodyshell Integrity warranty cover (making 10 years cover in total) is available as a cost option. Please ask your supplying Bailey retailer for more information.

3 Year Manufacturer's Warranty
For a period of twenty-four (24) months from the initial date of purchase Bailey of Bristol offer a comprehensive warranty on all parts and components as well as full coverage for any manufacturing faults forming part of the original specification of the vehicle, with the following specified exceptions:

The following items are covered for one (1) year from the date of first registration:

- Microwave ovens
- Pioneer stereo radio/CD/MP3 players & speakers

The manufacturer's warranty then extends to an additional twelve (12) months on the following items:

- Chassis: all chassis members including corner steadies
- Suspension: axle suspension and braking system (excluding any damage to or faults in brake drums and shoes that are caused through misuse of the braking system or from

normal wear and tear)
- Running gear: road wheels (excluding tyres)
- Towing mechanism: all mechanical components fitted to the vehicle (excluding electrical and electronic).
- Cooker: the cooker unit including burners, grill, oven, flame failure device and igniter
- Refrigerator: door seal condenser, gas control valve, gas igniter, flame failure device, 12v and 230v heater elements, gas thermostat, 230v thermostat and 230v temperature control switch
- Water system: water heater (gas or electric), fresh water tank, water pump, water
- Gauges, taps and shower head
- Electrical system: mains hook-up input connector, ELCB (Earth leakage Circuit Breaker), battery charger and distributor unit and interior lighting units (excluding bulbs)
- Cassette toilet: the cassette toilet is covered (excluding seals, valves and glands)
- Heating system: thermostat, motor, switches, control unit, gas heater, flame failure device (FFD) and igniter (excluding ducting and fittings)
- Windows: the functionality of the opening and closing system (stays, handles and catches) and a warranty against the cracking of the acrylic.
- Upholstery: zips, seams and colour fastness

Warranty Extension

An additional three (3) year extension to the standard Manufacturer's Warranty cover for mechanical and electrical components of a leisure vehicle both external and internal (making 6 years cover in total) is available as a cost option. Please ask your supplying Bailey retailer for more information.

Customer Support

In the unusual event of something going wrong your first contact should always be your supplying retailer. Approved Bailey Retailers enjoy industry-leading aftersales support service from the manufacturer and they should be able to offer all the help you need to rectify any problems that may exist.

Terms and Conditions

The Bailey Warranty Cover set out above is offered subject to the following simple terms and conditions:

Cover

1. During the term of the Warranty Cover, subject to these terms and conditions, Bailey will, through an Authorised Service Centre, at its option repair or replace all parts and components of the caravan that are included in the Warranty Cover and which suffer a defect in manufacture or workmanship. An Authorised Service Centre means either Bailey itself, a Bailey approved retailer or a Bailey approved service centre. Any part which is replaced becomes the property of Bailey. Any replacement parts are covered for the unexpired term of the warranty cover.

Term

2. The initial duration of the Bodyshell Integrity Guarantee is six (6) years and the duration of the Manufacturer's Warranty is three (3) years, in both cases starting from the original purchase date of the vehicle. It is a condition of the warranty that an annual service is performed on the vehicle in accordance with the service plan. Failure to comply with this term will invalidate the warranty.

3. The unexpired term of the Warranty Cover on your vehicle may only be assigned, transferred or novated to subsequent owners with Bailey's consent (not to be unreasonably withheld) and on payment to Bailey of a transfer fee of £35. Transfer can only be made within the first three (3) months of subsequent ownership and full documentary evidence that the vehicle has been serviced annually must be provided at the time of assignment in accordance with the terms and conditions detailed above.

Repairs

4. The caravan must undergo a full annual service and inspection, including a moisture survey, carried out, subject to paragraph 5 below, by an Authorised Service Centre. The final annual service in the warranty period must be carried out before the end of that warranty period, but all other annual services may be carried out within six (6) weeks either side of each anniversary of the original purchase date. The original VAT invoices must be retained as proof that these annual inspections have been carried out.

5. During the first three (3) years of the Warranty Cover, all annual inspections and repairs must be carried out by either Bailey itself or an approved Bailey service centre or agent. Thereafter, due to the technical nature

of an Alu-Tech constructed caravan, annual inspections and repairs may be carried out by any workshop or repair centre approved by the National Caravan Council that has attended Alu-Tech training courses at the Bailey factory.

6. Where an annual inspection identifies that repairs to the vehicle are necessary, the caravan must be made available for repair within six (6) weeks of the date of inspection for the purpose of carrying out the repair work.

7. No repairs, including the fitting of any replacement unit, may be undertaken or commenced under the terms of the Warranty Cover unless prior written authorisation is obtained from Bailey via an authorised Bailey retailer or service centre. No liability will exist with regard to any warranty claims not authorised in this way.

8. Bailey reserve the right to examine the vehicle before any repairs commence or any replacement part is fitted.

Registration and Use

9. The Warranty Registration Form must have been sent to Bailey within six (6) weeks of the original purchase date. It is the responsibility of the Bailey retailer to forward this information to Bailey. This is part of the terms of trading that the Bailey retailer has with Bailey.

10. The caravan shall:

- Only be used for its ordinary and intended purpose and shall not be subjected to any treatment or conditions which could reasonably be foreseen to cause or result in damage to the vehicle or excessive wear and tear
- Only be towed by a private car or private 4x4 vehicle
- Not be put out to hire, reward or any other commercial use, nor used in any race, competitions or rallies whether timed, official or otherwise.

Exclusions and Liability

11. Bailey's liability under this warranty shall be limited to supplying the reasonable costs of labour and materials required for the repair or replacement of faulty parts or components. Bailey shall be entitled to charge for any repair work which is necessitated by virtue of any loss or damage caused by your negligence or default or incurred as a result of any modifications you have made to the vehicle. This warranty does not cover repair costs other than labour and materials.

12. The Warranty Cover does not include:

- Repair or replacement of parts, components, seams or panels which are not part of the original construction of the caravan, or which have been tampered with or undergone unauthorised modifications, or which have been repaired otherwise than by an Authorised Service Centre
- Parts or components other than those specifically listed in the Bodyshell Integrity Guarantee and Manufacturer's Warranty descriptions set out above
- General maintenance or components failing due to fair wear and tear or normal deterioration repairs necessitated by lack of routine or regular maintenance. Particular attention is drawn to the Owner's Manual and Service Handbook supplied with the caravan and any maintenance instructions or notices published from time to time by Bailey relating to the proper care and maintenance of vehicles
- Structural degradation or other damage caused by water ingress through non-permanently sealed seams or joints (such as, without limitation, around windows, hatches, doors and rooflights), beyond the initial 24 months of the Manufacturer's Warranty.

13. No liability will be accepted for:

- Damage caused by neglect or abuse, corrosion, intrusion of foreign or deleterious substances, lack of servicing, over-heating, freezing, or the continued use of the vehicle after a fault has become evident
- Any loss or damage caused to parts not covered by this warranty cover, including soft furnishings or trim
- Any accidental or fire damage or any losses incurred by accident or fire
- Transport costs to and from point of repair.

Bailey will only be liable for costs which are incurred as a direct consequence of the event, defect or fault leading to the claim being made under this warranty. No liability will be accepted for any other loss or damage (such as loss of income or revenue, or loss of business or profits), costs, expenses or other claims for compensation howsoever arising which was not reasonably foreseeable by both parties when the caravan was originally purchased.

Bailey will not be liable for any loss or damage suffered by third parties, nor for bodily injury not caused by our negligence.

Nothing in this warranty shall limit in any way our liability: for death or personal injury caused by our negligence; for fraud or fraudulent misrepresentation; or for any matter for which it would be illegal for us to exclude, or attempt to exclude, our liability.

The purchaser has statutory rights in addition to this warranty and this warranty does not affect those statutory rights.

This warranty shall be governed by and construed in accordance with the laws of England and the parties irrevocably submit to the non-exclusive jurisdiction of the courts of England.

The name and address of the warranty and guarantee provider is:
Bailey Caravans Limited, South Liberty Lane, Bristol, BS3 2SS

Warranty Registrations
The supplying retailer must explain the warranty terms and conditions to you, and complete the warranty registration process on-line. Your warranty will start on the day that the vehicle is first registered in the UK or 12 months from the date on which the vehicle was invoiced to the supplying retailer, whichever is the earlier.

Customer's signature:

.....

Date:

.....

Retailer's signature:

.....

Date:

.....

4. CENTRAL REGISTRATION AND IDENTIFICATION SCHEME (C.R.i.S)

Caravan Registration
This caravan has been security marked and recorded under the Caravan Registration and Identification Scheme that is recognised by the Caravan Industry.

Shortly after purchasing this caravan you should receive your Touring Caravan Registration Document. It will be sent by post to your home address.

Your Touring Caravan Registration Document will include a 17 character VIN (Vehicle Identification Number), shown in the top right hand corner. This 17 character will be permanently marked onto the caravan chassis.

To protect yourself and your touring caravan, never leave the Registration Document in the caravan. For security reasons keep it in a safe place.

If you sell the caravan please follow the instructions on the Touring Caravan Registration Document.

If you do not receive a Touring Caravan Registration Document, lose it, or any of the details recorded are incorrect, please contact: CRiS, Avonbridge House, Bath Road, Chippenham, Wiltshire, SN15 2BB or Tel 0203 282 1000.

VIN Chip Caravan Identification
The caravan's unique 17 character VIN will be incorporated into VIN Chip tamper evident labels; the master VIN Chip label is situated on the front near side window to aid police checking, another in the gas locker and a maximum of 10 placed on the inside of all windows (with the exception of opaque windows).

Three electronic RFID chips containing the individual identity of your caravan are concealed within the caravan and can only be read by using a specially programmed RFID scanner.

CRiS Registrations:
For help, support and advice Contact CRiS:
NCC
CRiS Ltd,
PO Box 445,
Aldershot,
GU11 9SF.
Tel +44 (0) 203 282 1000

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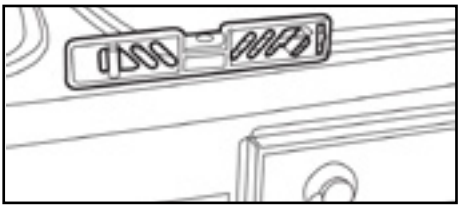
5. SETTING UP UPON ARRIVAL

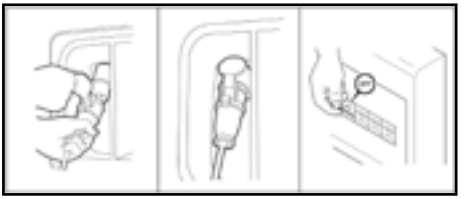
The following are brief, but not exhaustive, instructions on how to initially set up your caravan when you have arrived at your pitch.

- Once you have arrived at your destination and positioned your caravan you should follow the unhitching procedure as detailed on page 23. You should then level your caravan prior to undertaking any of the following steps. The levelling procedure is also detailed on page 23.



MAINS POWER CONNECTION

- Connect the 230v to the caravan by plugging your 3 pin lead into the 230v socket situated on the outside of your van.

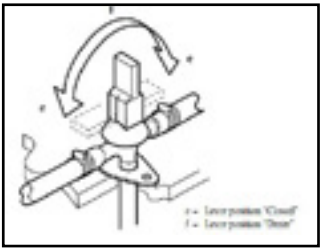


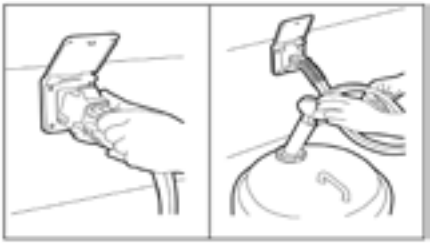
GAS SUPPLY

- Turn on the gas supply at the cylinder located within the gas locker. Turn on all the taps at the manifold (located in the kitchen)which are labeled and serve the individual appliances. Please bear in mind that if there is still some air in the supply pipes the ignition of gas equipment may take longer than usual.

FRESH WATER

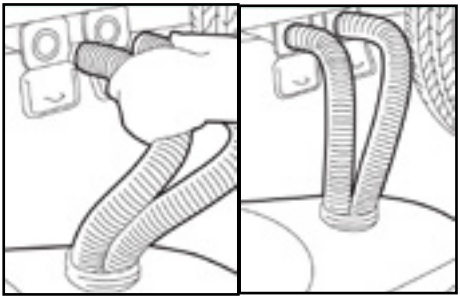
- Close all taps.
- Close drain valve located next to the water heater detailed on page 38.
- Fill your aqua roll/container with fresh water.
- Push the electrical end into the socket located on the outside of your caravan.
- lower the submersible end of the water pump into your aqua roll/container
- Turn on the pump at your control panel located just inside the main door. The light will come on when water is being pumped.
- Open the hot kitchen tap and allow the system to purge itself of air until there is a steady flow of water. This will also fill the water heater ready for heating. Close kitchen tap.
- Repeat operation for washroom.





WASTE WATER

- Couple-up both waste water hoses to the waste water outlets that are situated just to the rear of the offside wheel; then place the hoses into a suitable waste water holding container.

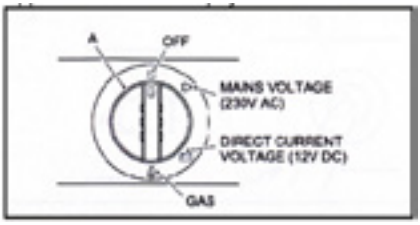


CASSETTE TOILET

- Withdraw the cassette and add the appropriate dose of chemical treatment along with 2-3 liters of water via the spout.

FRIDGE POWER

- The refrigerator is equipped to run using a choice of three types of power; 12 Volt, 230 Volt and Gas (Propane/Butane liquid gas)
- A rotary selector is located at the top of the refrigerator. You should turn the selector to the power source you wish to use.

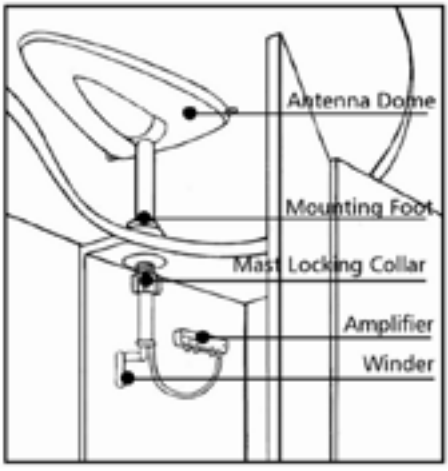


HOT WATER AND HEATING

- Once everything has been set up you will possibly want to heat water and also the caravan. To do this please refer to your heating system manual.
- Please note that hot water is not instant and will take time to heat up. If only water is being heated up (during summer operation), a temperature of 60 degrees is reached after around 20 minutes. If the living area is being heated and the boiler is being operated (during winter operation), a water temperature of 60 degrees is reached after around 80 minutes. It is possible to heat up the water in electrical operation alone (i.e. entirely without gas). The heating time in electrical operation is around 45 minutes.

TELEVISION AERIAL

- You caravan is suppilied with a Vision Plus aerial which is already fitted.
- Determine whether the TV transmissions are horizontal or vertical and use the winder to change the aerial to suit.
- Loosen the mast locking collar and raise the antenna.
- Switch on the amplifier. The light will illuminate.
- Rotate the antenna until the LED turns green.
- Increase the gain to max.
- Turn on your TV and tune in the channels.



6. QR CODES

What is a QR Code?
A Quick Response code is a two-dimensional barcode widely used for many purposes. When scanned with an app in a smartphone, it can cause a Web page to open with information about a product, download information or just about anything. Codes can be found in newspapers, magazines, brochures. QR apps are free to dowload and may already be included in your phone. The app uses the phone's camera therefore nothing extra is needed.
You will notice there is a page within this handbook dedicated to QR codes. These codes are linked to an appliance within your caravan and they will take you to an online place where you can download full details and instructions regarding the useage of that appliance.

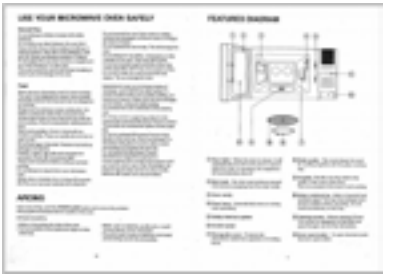
DIRECTIONS FOR USING QR CODES

1. Search for, Download and install "QR code reader/scanner" app on your smartphone if one is not already on your phone. Open your App Store, Market, Marketplace or App World application (for the iPhone, Android, Windows Mobile and BlackBerry platforms, respectively).

2. Open the QR code scanner app on your smartphone, and choose "scan from camera" or "scan QR code" from the main menu. A new window should open with a square in the middle of it.

3. Center the QR code in the middle of the square that is currently being displayed on your screen. The app should automatically take a picture of the QR code when it has finished scanning the information. A new menu will appear, with an option to follow the link to a specific website.

4. Select to go to the website/link. This will take you to the desired link and provide information relating to that specific QR code or it may automatically download a PDF covering all the information you need to your phone. For example the microwave QR Code automatically downloads a PDF version of the manual whereas the water filter QR coade takes you to a page where you can order replacement items.



Truma CP Plus control panel

Daewoo microwave

Dometic fridge

Caprice MKIII Oven

Pioneer stereo headunit

Thetford Toilet

Truma 6 combi

Aquasmart Water Filter

Bailey Parts direct

Latest Bailey news

Bailey owners club

7. COUNTRY AND COASTAL CODE

Upon arrival at your destination you should be aware of the Country Code.

Code of Conduct – Camp sites
Check the Site regulations.

Arrivals
Report to reception immediately on arrival.

Vehicle Movement
Keep to roadways unless otherwise directed.
Adhere to speed limits. Note that these are generally 10 mph while on site. (Remember that the stopping distance on grass is considerably greater than on tarmac).
Only a person in possession of a current driving licence may drive on site.
Park as advised on your pitch. Where possible leave 6 metres (20ft) of free space around your vehicle.

Use of Site
Use the electrical mains hook-up in the correct manner and with caution.
Ensure that all fresh water taps and connections are turned off after use.
Have care and consideration for others when using all facilities (toilets and showers etc) and leave them clean and tidy. Young children should be accompanied at all times.

Cautions
To avoid possible damage to sewage purification works, only approved chemical fluids must be used. Under no circumstances may coal tar, phenol or caustic-based fluids be used. Disposable nappies and similar bulky items must not be put into the chemical closet emptying points but should be wrapped in a polythene bag and placed in the container provided. (Put all litter in refuse containers marked for their specific purpose).

Noise
Do not make excessive noise.
Children should be prevented from making excessive noise.
Flying kites and model aircraft and the use of items like catapults or air guns, as well as ball games, should not be permitted among or close to caravans.
Musical instruments, music players, radios and televisions should not be used to the inconvenience of other people on site.
Open and close doors quietly.
Power generators must be adequately silenced and used with consideration and according to restricted site times.

Dogs and Pets
All dogs and other pets should be kept under control.
Unless permission has been granted, no animal should be let loose on the site and leads should not exceed 3 metres (10 ft).
No animal should be allowed in the shower/ toilet block.
Do not let animals foul the site.

Fire Precautions
Adhere to and make note of all fire precautions including the whereabouts of the fire points.

It is recommended that a 1kg (2.2lb) dry powder fire extinguisher is carried within the caravan. It should comply with BS 5423 ISO 7465 and be marked BSI or FOC approved. It is important to check at regular intervals that the extinguisher is working as is required by types meeting BS 5423. Make sure that the use-by date is frequently checked.

Careful thought is necessary for the positioning of a fire extinguisher, which should be near to the door but not too close to the cooking equipment where sudden flames could make it unreachable. In the kitchen area, a fire blanket is a worthwhile precaution.

Unless permission has been granted, barbecues should not be used. When permission has given, take care and consideration for other site users and ensure that the environment remains pleasant for everyone.

Awnings and Tents
Awnings and tents should only be used when permission has been granted.
When on grass and staying for more than a few days, the ground sheet and/or side flaps of awnings should be periodically raised in order to avoid damage to the ground.

Departure:
Leave the pitch clean and tidy.
On leaving, check out with reception, paying the required dues.

On no account should:

- Litter be disposed of other than in the receptacles provided.
- Water be allowed to escape from the vehicle.
- Chemical toilets be emptied except into the disposal places agreed with the landowner.
- Washing or similar to be hung outside of the vehicle.

Handbook
Before using the caravan, all aspects of the handbooks should be read and adhered to.

Environment
Care and consideration should be taken to protect the environment.

Observe the Country and Coastal Codes shown below.

The Country Code
Enjoy the countryside but respect its life and work.

More people than ever before are exploring the countryside, interested in farming, plant life, bird watching or just observing the general wildlife. Whatever your interest, there is a lot to learn, but please observe the following code.

Guard against all risk of fires. Hay and heath land catch alight easily and once ablaze are very hard to put out. Remember fire spreads quickly.

Keep to the public paths across farmland.

Use gates and stiles to cross fences, hedges and walls.

Leave livestock, crops and machinery alone. View from a distance.

Take your litter home; it is unsightly and harmful to wildlife.

Help to keep all water clean.

Take special care on country roads

Make no unnecessary noise. Most animals are timid; noises can disturb them unnecessarily. If you want to get the best out of the countryside, travel around as quietly as possible.

The Coastal Code
As our coastlines are increasingly used for recreation and education, the following suggestions are made to enable us to enjoy our inheritance and preserve it for posterity.
Do not trample about, or move rocks unnecessarily.
Do not frighten seals or sea birds.
Do not spear fish.
Do not spill detergents, solvents or fuel from boats as these can kill marine life.
When using a boat, moderate your speed, the wash from a fast boat can destroy both banks and nests.
Live molluscs and crustaceans should not be collected as souvenirs, dead shells can usually be found.
Shellfish can take years to grow and fines can be imposed for not observing national regulations.
Do not pull up seaweed unnecessarily.
Make your visit instructive, not destructive.
Look at material, don't remove it. Take notes and photographs, not specimens.
Observe bye-laws and be considerate to others.
National Trust property or Country Parks have regulations to protect the wildlife. Follow these.

Roof Loading

Do not allow children to climb on the roof of your caravan.

Take special care when on the roof, particularly in wet or frosty weather conditions, when the surface could be slippery. Always wear practical footwear when climbing onto your vehicle.

Safety and Security

Your attention is drawn to the notice fixed in your Caravan advising on fire protection, ventilation and what to do in case of fire.

Children
Never leave children alone in the caravan. Ensure all potentially dangerous items are kept out of reach.

When upper bunks are used by children, especially those under the age of six (6), care should be taken to ensure against the risk of them falling out. These bunks are not suitable for use by infants without appropriate adult supervision.

Fire Extinguishers
It is recommended that a 1kg (2.2lb) minimum capacity dry powder fire extinguisher be located near to the main habitation entrance door.

A pan fire should not have a fire extinguisher aimed at it but be smothered with a fire blanket. This should be within easy reach of the hob but away from the source of flames.

In Case of Fire
- Get everyone out of the caravan as quickly as possible using whichever exit is quickest including windows.
- Raise the alarm – call the fire brigade (In the UK dial 999).
- Turn off the gas container valve if it is safe to do so.

Your caravan is fitted with a smoke alarm. The operation of the alarm should be tested after the vehicle has been in storage, before each trip and at least once per week during use.

Ventilation and Condensation
The ventilation points on your caravan are fixed points specified by European standards. Under no circumstances must these be blocked or obstructed. It is advised that fixed ventilation points and any protective screens are checked and cleaned on a regular basis.
Fresh air circulation should be allowed below the caravan when appliances are in use and when flues terminate below the floor to allow free evacuation of the products of combustion. At least three sides of the under-floor space should be kept clear and unobstructed, including by snow. Do not make any additional openings in the floor.

Additional night time ventilation is obtained by releasing the window catches and placing them in the second groove on the frame catch.

Under no circumstances should the caravan ventilation be covered, blocked or tampered with in any way.

Petrol and Diesel Fumes
The fitting of a tail pipe deflector to your exhaust will reduce the possibility of fumes entering your caravan through the front fixed ventilation points. However fitting an extension to an exhaust tail pipe will render the exhaust illegal if it projects beyond the vehicle body or bumper.

Original Equipment Appliances
See sections devoted to individual appliances.

Replacement parts for any appliance shall conform to the appliance manufacturer's specification, and should be fitted by them or an authorised agent.

Portable Appliances
Never use portable cooking or heating equipment, other than electrical heaters that are not of the direct radiant type, as it is a fire and asphyxiation hazard.

Modifications
Never allow modification of electrical or LPG (liquefied petroleum gas) systems and appliances except by qualified persons.

8. CARAVAN AND TOW VEHICLE

Choosing the right car and caravan combination for safe and stable towing is an important process. It may seem complicated to the newcomer, but a few minutes spent learning the basic principles, common terms and definitions will be worthwhile. In the long term and ensure your enjoyment of the caravan.

Caravan and Towing Vehicle Terms
Maximum Technically Permissible Laden Mass (MTPLM);
As stated by the vehicle manufacturer. This mass takes into account specific operating conditions including factors such as the strength of materials, loading capacity of the tyres etc. MTPLM is the maximum permissable weight of caravan on the road.

Under no circumstances should the maximum technically permissible laden mass of the caravan be exceeded.

Mass in Running Order (MRO): Mass of the caravan equipped to the manufacturer's standard specification and certain items of essential habitation equipment.

User Payload: The difference between the maximum technically permissible laden mass and the mass in running order.

The user payload includes:
Personal Effects: Those items which a user can choose to carry in a caravan and certain items of habitation equipment which are not included in the MRO or Optional Equipment.

Personal effects will include the wheel lock, jack and television if NOT supplied as standard with the caravan.

Optional Equipment (OE): Items made available by the manufacturer over and above the standard specification for the caravan.

The masses relevant to your model of caravan can be found at the back of this book.

Please take care to ensure that you have allowed for the mass of all items you intend to carry in the caravan. e.g. optional equipment, essential habitation equipment and personal effects such as clothing, food, sports equipment etc. The actual laden mass of the caravan as towed should not exceed the maximum technically permissible laden mass. The actual laden mass can be measured on a public weighbridge.

Please note: weighbridges, although regularly checked, can give varying (inaccurate) results.

Nose Weight: The downward force (or weight) of the caravans coupling head on a cars towball. This is sometimes defined as the "static load at the coupling head". The maximum nose weight for a caravan will be limited by either the towing vehicle tow hitch limits or the maximum load to which the caravan hitch is specified.

The towing vehicle and towing hitch handbooks/manufacturers guide must be consulted for their specification prior to towing.

The maximum static nose weight for all Bailey caravans is 100kg. This should never be exceeded regardless of whether the towing vehicles upper limit is greater.

It is recommended that the nose weight should be varied to find the optimum weight for towing dependent upon the actual laden weight of the caravan. Experience has shown that the nose weight should be approximately 7% of the actual laden weight.

Measurement of the nose weight:
Nose weight may be measured using a proprietary brand of nose weight indicator. Such equipment is obtainable from your Bailey retailer.

Another simple method is to use bathroom scales and a suitable piece of strong timber as a platform to rest the tow hitch on. The timber can be placed vertically between the caravan tow hitch and the bathroom scales. The timber should be of such a length that when the caravan tow hitch is lowered onto it, using the jockey wheel, the caravan floor is horizontal. The weight can then be measured. When taking the measurement the jockey wheel should be raised and the corner steadies lowered until they are just clear of the ground.

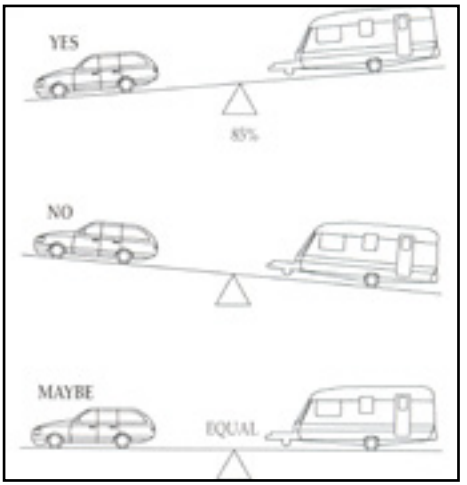
Kerb Weight: The weight of the towing vehicle as defined by the vehicle manufacturer.

This is normally:

- With a full tank of fuel
- With an adequate supply of other liquids incidental to the vehicle's propulsion
- Without any drivers or passengers
- Without any load except loose tools and equipment with which the vehicle is normally provided
- Without any towing bracket.

The caravan to towing vehicle weight ratio:
This can be determined by calculation and is equal to:

$$\frac{\text{Actual laden mass of caravan}}{\text{Kerb weight of towing vehicle}} \times 100\%$$



As a general guide:

- Conventional petrol engines with a capacity of up to approximately 1600cc petrol or 1800cc diesel should be adequate for towing a caravan weighing around 85% of the kerb weight of the towing vehicle.
- Above 1600cc petrol or 1800cc diesel such engines should manage a caravan weighing up to 100% of the kerb weight of the towing vehicle and still give adequate performance.

The towing vehicle manufacturer's towing limit is, in some cases, less than the kerb weight.
Vehicles with automatic transmission may need an oil cooler fitted or the SAE (Society of Automotive Engineers) rating of the gearbox fluid increasing when towing. The advice of the vehicle manufacturer should be sought.

The law requires that caravans, their towing vehicles and the loads they carry must be in such a condition that no danger or nuisance is caused. (Regulation 100 of the Road Vehicles [Construction and Use] Regulations 1986.)

Towing Vehicle's Rear Suspension
It is important that the towing vehicle's rear suspension is not deflected excessively by the nose weight on the towball. If it is excessive the steering and stability will be affected and at night the headlight beam is likely to dazzle other drivers, which is illegal.

The greater the towing vehicle's tail overhang (the distance between the rear axle and the towball) the greater the effect the nose weight will have on the towing vehicle's rear suspension.

After trying out the caravan it may be found that stiffening of the rear suspension is necessary but note that this may give the towing vehicle a firmer ride when not towing.

There are a number of suspension aids available and advice should be sought on which to use and how to fit.

It is important to ensure that the caravan is towed either level or slightly nose down. If it is not, then the car's towbar may be at the wrong height.

Always consult your tow vehicle manufacturer for advice on towing and the loads that the vehicle is capable of towing.

Recommended Towball Height
The recommended towball height for Bailey caravans is 385 +/- 35mm (350mm to 420mm).

Secondary Braking Cable (breakaway device)
Purpose: To apply a trailer's brakes if it becomes separated from its towing vehicle. Having done this, the cable assembly is designed to part, allowing the trailer to come to a halt away from the towing vehicle.
Construction; A thin steel cable, coated in red plastic and fitted with a means of attachment for connection to the towing vehicle.

Operation; In the event of the main coupling of the trailer separating from the towing vehicle, the cable should be able to pull tight, without any hindrance, engaging the trailer's brakes.

The breakaway cable should never become taut during normal use.

Correct procedure for use:
Regularly check the cable and clip for damage. If in doubt, contact your trailer or towbar supplier or your service agent.
Make sure the cable runs as straight as possible and goes through a cable guide underneath the trailer coupling.
Determine whether or not the towbar has a designated attachment point (i.e. a part specifically designated by its manufacturer for a breakaway cable).

Where a designated attachment point is provided on the towbar:

- Pass the cable through the attachment point and clip it back on itself.
- Where no designated attachment point has been provided on the towbar:
- Fixed ball: Loop the cable around the neck of the tow ball. If you fit the cable like this, use a single loop only.
- Detachable ball, You must seek guidance on procedure from the towbar manufacturer or supplier.

Other means of attachment:
In some instances it may be possible to attach the cable assembly:

- To a permanent part of the towbar structure, as long as this meets the approval of the towbar manufacturer/supplier,
- To an accessory sold for the specific purpose of breakaway cable attachment.

When the breakaway cable is attached, check to ensure:

a. That the cable cannot snag in use on the Caravan coupling head, jockey wheel, or any accessory, e.g. a stabiliser, bump shield, cycle carrier, etc.

b. That there is sufficient slack in the cable to allow the towing vehicle and caravan to articulate fully without the cable ever becoming taut and applying the brakes. For peace of mind you might wish to check the state of the cable by positioning the caravan and towing vehicle at extreme angles before setting off.

c. That it is not so slack that it can drag on the ground. If left loose, the cable may scrape along the ground and be weakened so that it subsequently fails to do its job. The cable may also be caught on an obstacle when in motion, thus engaging the caravan's brakes prematurely.

Having followed this advice, should you feel that a satisfactory coupling arrangement cannot be achieved, consult your trailer or towbar supplier or service agent.

It is a legal requirement that the secondary breakaway cable is used when towing.

Loading and Distribution of Weight in the Caravan and Car.
Equipment and personal effects should be loaded in the caravan so that any heavy items are low down near to the floor and mainly over the axles.

The remainder should be distributed to give a suitable nose weight at the towing coupling.

It should be noted that with certain layouts or models it may be necessary to load heavy items, such as awnings, in the middle of the floor to achieve an acceptable and safe nose weight. It may not be possible to achieve the desired nose weight with all items stored out of sight in lockers and bed boxes (bunks).

Please take care that you have allowed for the weight of all items you intend to load into the caravan.

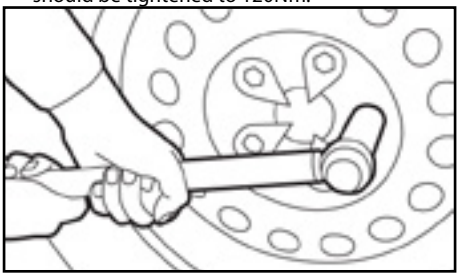
Nose weight

It is recommended that the nose weight should be varied to find the optimum for towing dependent upon the actual laden weight of the caravan. Experience has shown that the nose weight should be approximately 7% of the actual laden weight (i.e. between 50 and 100kg). However, this may be limited by the towing vehicle or caravan manufacturer's limit nose weight. Check with the car handbook, or consult your retailer. The upper limit for the caravan coupling head is 100kg.

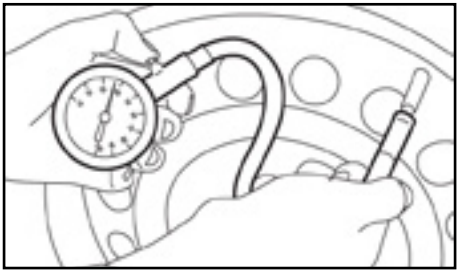
Hitching Up

Before hitching up the vehicle always check the following:

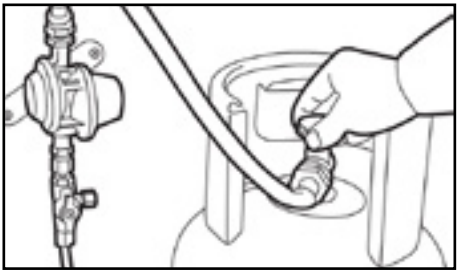
1. All wheel bolts are tightened to the correct torque. When fitted with alloy wheels, bolts should be tightened to a torque of 130Nm (Newton metres). For the steel spare wheel supplied with the caravan the wheel bolts should be tightened to 120Nm.



2. Inspect all wheels and tyres for signs of deterioration or damage.
3. Tyre pressures are correct according to the service handbook pages 12-14 (remember to check the spare as well).

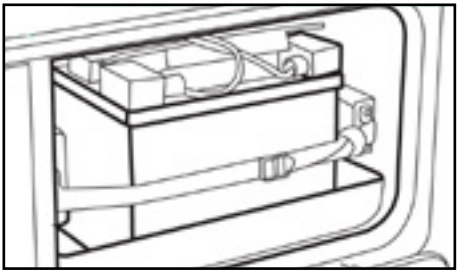


4. Ensure all loose articles are stowed securely. Do not store heavy items in roof lockers. Televisions and other heavy items must always be secured at floor level when towing.
5. All lockers and cupboard doors are closed and secured.
6. All bunks are secure.
7. All rooflights, extractor fans and sunroofs are closed and secured.
8. Tables are secured in their transit position.
9. Fridge is on 12v operation and the door lock is set (if required).
10. All windows are fully closed and latched. Never tow with windows on night setting.
11. Gas cylinders are correctly positioned, secured and turned off, the gas box is shut and locked.



- Ensure no loose items are stored in the gas box and it is not overstuffed with equipment, as this may cause impact damage to the inside of the panel.

12. Battery strap is connected and the battery is secure.



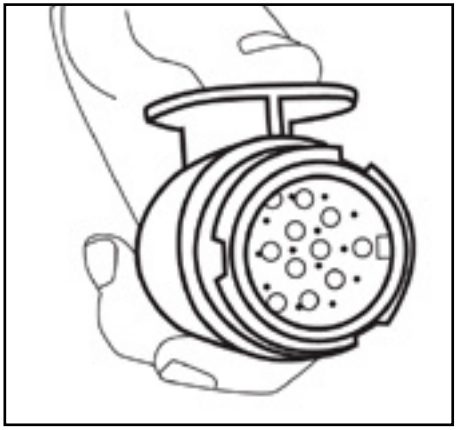
13. All external doors, flaps and ventilation ducts are closed and secure with their relevant covers in place.

- Before commencing any journey always ensure that the rooflights are closed and both handles are securely fastened.
- It is recommended that a minimum of 2 people work together when hitching up the caravan to the tow vehicle.

Hitching the caravan to the tow vehicle

1. Ensure that the caravan is in a suitable position, and secure with the handbrake fully on.
2. Fully raise all four corner steadies.
3. Shut and lock the caravan exterior.
4. Gauge the height of the car's towball then raise or lower the height of the caravan's towing hitch to ensure that it is high enough to pass over it cleanly and not hit the towball. Rotating the caravan's jockey wheel handle can do this: Clockwise to lower, anti-clockwise to raise.
5. The assistant should position themselves by the front near side of the caravan so that they can extend an arm horizontally to indicate the position of the caravan's towing hitch.
6. Remove the car's towball cover and keep it in a secure place in the car.
7. Slowly reverse the towing vehicle towards the caravan. When reversing the towing vehicle towards the caravan always ensure that any pedestrians and your assistant are visible at all times.
8. When reversing aim the towball of the car directly at the caravan towing hitch.
9. When the car's towball is as near to the caravan's towing hitch as possible fully apply the car's handbrake, turn off the engine and leave the car in first gear (Park or 'P' position for automatics).
10. The final positioning should be carried out by manoeuvring by hand.
11. Carefully release the caravan's handbrake.
12. Manoeuvre the caravan's tow hitch directly over the towing vehicle's tow ball. Always manoeuvre the vehicle by pushing/pulling on the grab handles. When the caravan is in the correct position fully apply the handbrake.
13. Raise the handle on the caravan tow hitch until it clicks and remains at an angle.
14. Rotate the jockey wheel handle clockwise to lower the hitch onto the towball. When the tow hitch clicks and the handle drops to the horizontal position it is engaged. The hitch head is fitted with a visual indicator on the front radius to show whether or not it is properly connected to the tow ball. A green band will show immediately below the red indicator button on the hitch head when a proper connection has been made.
15. Connect secondary braking cable as per the instructions in the previous section.
16. Test that the hitch is now fully engaged by slightly raising the caravan hitch from the car towball by winding the jockey wheel handle anti-clockwise. The hitch should not release from the car towball. Only raise the rear of the car enough to check the hitch is fully engaged.
17. Turn the jockey wheel winding handle to lower the caravan. When the wheel is fully retracted, release the clamp and raise the jockey wheel to travel position.
18. Once the jockey wheel is in travel position and the wheel is located in the recess, tighten the clamp again.
19. All caravans are fitted with a single 13 pin lead. Where the connector for the car does not match that of the caravan an adaptor or replacement cable will be required. Please ask your supplying retailer for details.

Connect the lead to the receiving socket on the towing vehicle ensuring there is enough loose cable for cornering, but not too much so that it can drag on the ground.



20. Check all towing vehicle and caravan road lights are working, and the operation of the brake lights.
21. Pick up any levelling pads or levelling boards.
22. Fully release the caravan handbrake.
23. Carry out a second check that the hitch is secure and the secondary braking cable is connected.
24. Adjust the car's driving mirrors from the driving seat to ensure good rearward visibility.

9. TOWING

Speed Limits

Where a lower limit is not in force, caravans may be towed at up to a maximum of 50 mph on single carriageways or 60 mph on dual carriageways and motorways.

Pulling Away

Allow more engine speed to produce the power to move the additional weight of the caravan.
Let the clutch out smoothly.
Avoid wear and tear on the clutch and transmission by taking extra care.
Change gears smoothly.
Try not to jerk the clutch.

Caravan Handling

Allow for the caravan being slightly wider than the car.
Allow additional distance from the kerb with caravan wheels so that they are not "bumped".
When passing other vehicles allow more than normal clearance for driving solo.
Overtaking and stopping distances are increased when you are towing.
Always indicate in plenty of time before carrying out any manoeuvre.
Allow longer to accelerate up to speed prior to overtaking.
Allow for the vehicle being twice its normal length.
Do not suddenly swing out.
Carry out all manoeuvres as smoothly as possible.
Use nearside wing mirror to check caravan has cleared when overtaking.

Reversing

Proficiency at reversing can only be achieved with practice and should be first attempted in a large open area. Consider taking a suitable training course.

Motorway Driving

Caravans may not be towed in the outside lane of three or four lane Motorways (Reg 12(2) of the motorway Traffic [England and Wales] Regulations 1982).
Reduce speed in high winds, cross winds, driving downhill or in poor visibility.
High-sided vehicles such as lorries or coaches can cause air buffeting, so extra care must be taken when passing or being passed. Give as much space as is possible between your caravan and the high-sided vehicle.

Mirrors

The law requires the driver of the towing vehicle to have an adequate view to the rear.
If there is no rear view through the caravan windows it may be necessary to have additional exterior towing mirrors fitted to provide a view along both sides of the caravan. In some countries these additional mirrors are a legal requirement.
Any rear view mirror must not project more than 200mm outside:

- The width of the caravan when being towed.
- The width of the towing vehicle when driven solo.

Any additional rear view mirror fitted shall be of an approved European type and cover the field of view as stipulated by the regulators.

Passengers are forbidden to ride in a caravan at any time.

Snaking

This is a term used to denote an unstable car and caravan combination where the caravan "weaves" from side to side often causing a similar swaying movement in the car itself. Possible causes are:

- Insufficient tyre pressure on either the caravan or the tow vehicle.
- Tow vehicle too light.
- Incorrect loading or weight distribution.
- Excessive speed especially downhill.
- Side winds.
- Overtaking.
- Being overtaken by a high-sided vehicle.
- Erratic driving.
- Mixing radial and cross ply tyres.
- Nose of the caravan is towing too high.
- Insufficient nose weight.

Stabilisers

A stabiliser should never be used to try to improve a caravan/towing vehicle combination that has poor stability as instability may appear at high speed.
However, a good stabiliser can make an acceptable caravan and towing vehicle combination more comfortable and easier to handle.

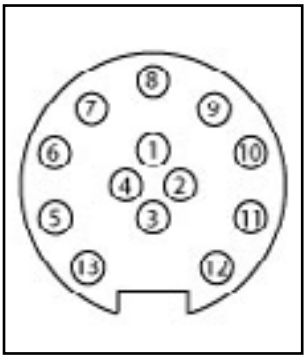
Holes should not be drilled in either the coupling head or "A" Frame members without prior consultation with the chassis manufacturer.

If you do encounter snaking, try to keep the steering wheel in a central position, slow down gently and avoid braking if possible.

Road Lighting

All caravans are fitted with a single 13 pin lead. Where the connector for the car does not match that of the caravan an adaptor or replacement cable will be required. Please ask your supplying retailer for more information.

13 PIN PLUG



KEY:

1. Left-hand direction, indicator light
2. Right fog light
3. Common return for Core Nos. 1, 2 and 4 to 8.
4. Right-hand direction indicator light
5. Right-hand rear position and marker lights, and rear registration, plate illumination device.
6. Stop lights
7. Left-hand rear position and marker lights and rear registration, plate illumination device
8. Reversing light
9. Continuous power supply
10. Power supply controlled by ignition switch
11. Return for core no 10
12. Coding for coupled trailer
13. Return for core no 9

Within your accessories pack you will find a green 13 pin plug protection screw on cap. This should be used everytime you connect your caravan to your vehicle. This will help to protect the 13 connections from corrosion. If you find corrosion on you connections please spray with water displacement spray.

10. ROAD LIGHTS

It is important that all the road lights on your Bailey caravan are checked before you set out on a journey.

All lights must be working in the correct manner for the vehicle to be road legal.

Clean the outside of the lights with a non-abrasive or non-aggressive cleaning solution.

Always replace a lamp which is showing any sign of damage.

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11. UNHITCHING

Do not pitch in a position in which your outfit will obstruct other people.
Try to choose an area that is dry, reasonably level and preferably with a hard base.
If you have no alternative but to pitch on a slope ensure that, for when you leave, you are facing down the slope.
It is good practice to chock the wheels of the caravan when parked on a slope even though the caravan brakes are applied.

Fully apply the caravan handbrake.

Un-clamp and lower the jockey wheel to the ground.
Re-clamp it in this position.

Pull the stabiliser lever up as far as it will go, open the coupling
handle and lift the AKS 3004 from the towball. With larger nose
loads, coupling and uncoupling can be made easier by using the
jockey wheel to assist lifting.

Serious damage will occur unless the button is depressed first and the handle lifted forward before the caravan is lifted manually. This prevents the nose weight being transmitted through the button.

Re-clamp jockey wheel if necessary.

Disconnect the secondary braking cable.

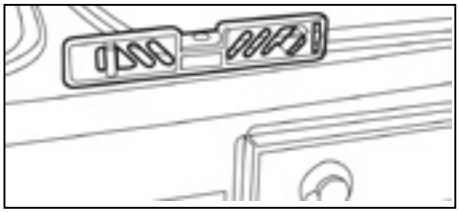
Disconnect the 13 pin plug and return it to its holder.

Replace towball cover.

Park your vehicle alongside the caravan on the offside.

Levelling the Caravan

Levelling must be carried out in both directions in order for the refrigerator and other equipment to function correctly. A spirit level can be used as shown in the picture however there are many free to download apps available on your tablet or smart phone.



The positioning of the jockey wheel can be used to help level the caravan.
Lower the corner steadies until they are in firm contact with the ground.

Under no circumstances should the corner steadies be used as a jack as they are only a means of stabilising the caravan.

Levelling pads or boards should be used under the steadies where the ground is soft or uneven. In extreme cases where it is necessary to raise a wheel off the ground for levelling purposes, further adequate support should be applied under the wheel so that the corner steadies do not take any undue strain.

Towing Brackets
All tow cars registered since 1 August 1998 must be fitted with a European type-approved towing bracket, by law. It is recommended that other cars not affected by this law use only towing brackets designed and tested to British Standard BS (AU) 114b, or ISO 3853

12. WHEELS AND TYRES

Unicorn
Wheel, Tyre and Bolt safety fitment by Wheel Solutions Ltd.
WSL Individually Laser Balanced, TUV tested styled alloy wheels fitted with Branded tyres and anti tamper WSL Safety Bolts.

Pegasus & Pursuit
Wheel, Tyre and Bolt safety fitment by Wheel Solutions Ltd.
WSL Individually Laser Balanced, TUV tested styled alloy wheels fitted with Security tyres and anti tamper WSL Safety Bolts.

TyrePal - Tyre Pressure Monitoring
Bailey are the first caravan manufacturer to add tyre pressure monitoring as a standard. Each Unicorn and Pegasus IV caravan will come
"TyrePal TPMS Ready" – internal sensors are factory-fitted inside the wheels and all the owner has to do is purchase a monitor to get real time tyre pressures.

Tyres
The tyres fitted to Bailey caravans are Michelin car and van tyres for the Unicorn range and Security Tyres for the both the Pegasus IV and Pursuit range. They are suitable for towing at sustained speeds of up to 81 mph (130 kph) to allow for use in countries which permit these speeds.

Radial and cross ply tyres should never be mixed. It is dangerous and can cause snaking. Fit only tyres that are of the identical specification on each side, unless towing for a limited time on the spare wheel.

Tyre Wear and Damage
The legal requirements for tread depth (1.6mm) on motor vehicles also applies to caravans.

In order to equalise wear it is suggested that wheels be balanced and changed around from time to time. When caravans are not in use for extended periods, wheels and tyres should be removed and stored in dry conditions and away from the outside elements. Alternatively caravans should be jacked up to relieve the load from the tyres.

It is dangerous to neglect tyre damage. Tyres should be checked for damage or cuts exposing the casing. If a tyre has suffered an impact (for example against a kerb) it is advisable to have it examined by a tyre specialist as soon as possible.

The caravan industry recommends that, for safety reasons tyres more than 7 years old from the date of manufacture be replaced, but preferably replaced at 4 years old. The tyres may have deteriorated by this time, regardless of tread depth.

The cleaning of tyres should only be carried out using soap and water. Petrol, diesel, paraffin and other solvents are not suitable.

If the caravan is not used for long periods of time (periods of longer than 1 month) it is recommended that the wheels/tyres are removed and stored upright in a rack, and rotated at least once a month to avoid the tyres becoming distorted. They can be covered with a natural material (e.g. hessian) for protection but NOT plastic materials. This will reduce the deterioration of the tyres and reduce the cracking and flat spots caused by continuous loading and external conditions.

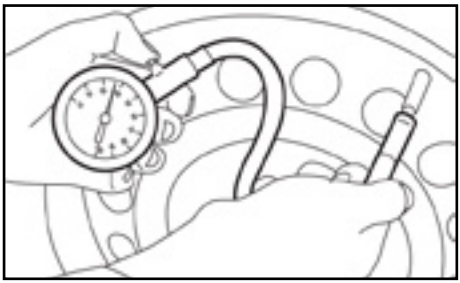
If it is not practical to remove the wheels it is recommended to routinely rotate the wheels to reduce the potential of cracking, flat spots etc.

⚠ Check with your insurance company that you are still covered when the wheels are removed.

Tyre Pressures
Caravan tyres should be at the pressure recommended in the rear of this manual. The towing vehicle tyres should be set to the pressure recommended by the vehicle manufacturer for laden conditions. This will ensure the tyres and vehicle operate in a safe condition and maintain stability of the vehicle when towing.

⚠ Always check your caravan and tow vehicle tyre pressures when cold and prior to any journey. Also check tyre conditions for damage or cuts exposing the casing before and after any journey. (This includes the spare.) If in doubt it is advisable to have it examined by a tyre specialist as soon as possible. Incorrect tyre pressures can seriously affect towed vehicle performance and the longevity of the tyre.

Consult your tow vehicle manufacturer for the correct tyre pressures for towing.



Wheels

Caravan wheel bolts must only be tightened to the appropriate setting by tightening each opposite fixing in succession to the correct torque. Always use a calibrated torque wrench. Do not use a corner steady brace, power or electric wrench. It is as dangerous to over-tighten bolts as to not tighten them sufficiently.

The torque settings should be checked after the first 50km/30 miles. For alloy wheels the wheel bolts should be tightened to a torque of 130Nm (Newton metres) (96 lb-ft), for steel wheels the wheel bolts should be tightened to a torque of 120Nm (88 lb-ft)

The condition of wheels should be checked regularly, particularly for distortion of flanges and the wheel dish. Wheels damaged or distorted, or having the wheel bolt seating cracked or deformed, must not be repaired.

If a wheel or tyre has to be changed it should be of the same type of construction and size as originally fitted.

Only use a spare wheel and tyre recommended by Bailey Caravans, which should be of the same specification as those fitted to the caravan.

Always ensure mating surfaces and bolt seating areas are clean and dry. Wheel bolts should never be lubricated.

Spare wheels are optional extras with some models. The spare wheel fitted to your caravan is an unbranded tyre

1. Always ensure that the tow vehicle and caravan are in a safe position before attempting to change the caravan's wheel. We recommend leaving the caravan hitched to the tow vehicle when changing the caravan's wheel. The tow vehicle should be left in gear (or "P"/Park for an automatic) with the handbrake on both the car and the caravan fully applied.
2. Lower the corner steadies as a safety measure to stabilise the caravan. Chock the un-punctured wheel on the opposite side of the caravan to prevent any movement.
3. Slacken off the wheel bolts by no more than one quarter of a turn on the wheel that requires changing. Do not fully undo them.
4. We recomend you only use an AL-KO jack on the AL-KO chassis. Please refer to your AL-KO handbook for jacking instructions.
5. The wheel that is to be removed should be lifted just off the ground.
6. Remove the wheel bolts and remove the wheel.
7. Fit the spare wheel, then reverse the above procedure. Ensure that the wheel bolts are all fitted, and tightened in the correct sequence to the correct torque setting (see information under "wheels" for the correct sequence).
8. Remember to the torque of wheel bolts after 50kms/30 miles.

Under no circumstances should the corner steadies be used as a jack: they are only a means of stabilising the caravan.

13. SPARE WHEEL CARRIER

Unicorn and Pegasus Models

The spare wheel carrier fitted in your leisure home is much like that fitted into your car.

To lower the spare wheel:

1. Remove the plastic stopper in the floor
2. The winder for the spare wheel carrier can be found in the kit bag supplied with the vehicle.
3. Remove the winder from the kit bag and insert the hooked end of the crank in the spare wheel retaining attachment.
4. Lower the spare wheel to the ground, with a little amount of slack. Pull the wheel out as far as possible before slackening the cable further. Repeat until the wheel is in the desired position.
5. Draw the spare wheel towards you from under the leisure vehicle.
6. Pivot the toggle at the end of the cable 90 degrees to release it from the spare wheel.

When the spare wheel is being used on the vehicle, the retaining cable could damage the underside of the vehicle if not retracted. Crank up the cable again by turning the crank clockwise. (The wheel with the flat tyre can be stored on the carrier for transport purposes.)

Returning the spare wheel to the storage compartment:

1. Use the crank (turn it counter clockwise) to lower the spare wheel's retaining cable. When there is no wheel attached, the cable will need to be gently pulled from the carrier during lowering to ensure the cable does not tangle inside the carrier.
2. Pass the toggle at the end of the cable through the centre hole in the spare wheel. Pivot the toggle 90 degrees so that when raised, the wheel will rest on the toggle.
3. Retract the retaining cable slightly by slowly turning the crank clockwise several times.
4. Position the wheel so that it is not obstructed by components under the floor.
5. Continue to raise the wheel by turning

the crank clockwise. Raise the wheel a little bit at a time and guide it until it is securely seated against the floor.

6. When it is no longer possible to turn the crank any further, check that the spare wheel is seated tight against the underside of the floor and has not fouled on any component.
7. Replace the plastic stopper inside the vehicle.

Retrofit of this carrier is available for Pursuit Models.

SPARE WHEEL RETAINER

Pursuit Plus Models.

The Pursuit spare wheel is located in one of the bunks or fixed beds and is retained in position with the use of a bolt into the caravans floor.

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like he's on Bridgestone tyres
Bridgestone Sport tyres *have been specifically developed and designed with extra wide blocks of slick rubber to provide maximum grip under acceleration and a reinforced carcass to improved performance whilst cornering to give you excellent control. It's important because our tyres are the only part of your car's safety system that actually touches the road.*

Bridgestone Europe
For your nearest Bridgestone authorized dealer, visit our website
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BRIDGESTONE
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14. THE AL-KO AKS 3004 STABILISER AND COUPLING

The trailer coupling may only be connected to towing vehicles where the clearances for the stabiliser can be observed, in accordance with EC Directive 94/20 (DIN 74058). If these clearances are infringed by special attachments, then the use must be checked separately.

The area above the towball of the vehicle must be free from vehicle components or attachments (A) (e.g. spare wheels, platforms etc.)

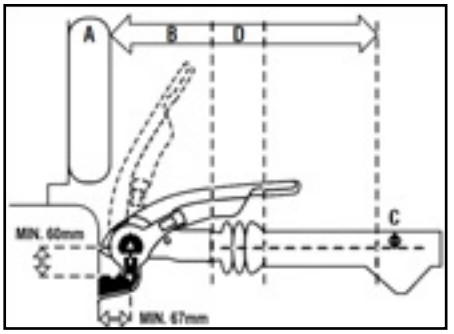
The clearance for the stabiliser lever must be at least 330mm (B) + the stroke movement (D) (85mm-100mm), which equates to 440mm when used in conjunction with an AL-KO overrun.

Max. 50mm (C) clearance between the centre of the towball and top of the overrun assembly or fairing, to ensure both coupling handle and stabiliser lever do not foul on operation.

Maintain the same clearances for other manufacturers' overrun assemblies.

May not be suitable for use with overrun devices which can revolve above 25° (Fig 2) or BPW overruns fitted with gas strut handbrakes from 2001 model year onwards. (If in any doubt about usage consult your manufacturer).

Swan Neck towbars (fixed or detachable) are suitable for use with the AKS 3004 providing they comply to EC Directive 94/20 and have the required minimum 60mm clearance, measured from the centre of the towball.



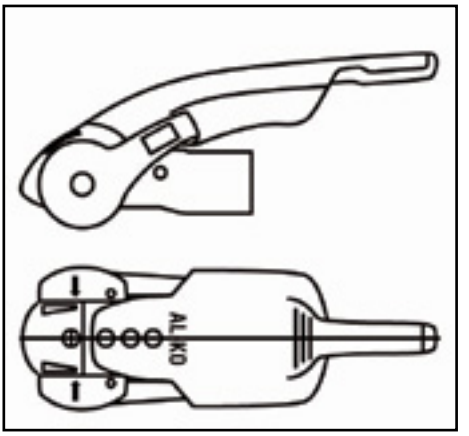


FIG. 1.

Operating Instructions
Coupling handle and stabilising lever.
The stabiliser lever (Fig.3/ Item 2) must be in the uppermost position (open).

Coupling
Pull the coupling handle (Fig. 2/Item 1) up in the direction of the arrow. The coupling mechanism has an open position, i.e. as long as the AKS 3004 is not placed on the ball, the handle will remain open. Put the opened coupling onto the clean towball. The handle must now make an audible click and return to the flat position.

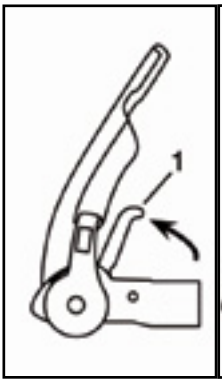


FIG. 2.

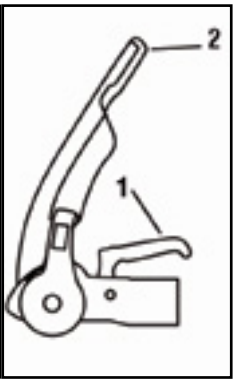


FIG. 3.

The coupling is correctly engaged when the green edge of the safety indicator button is visible (Fig. 4/Item3.)

Always ensure that the jockey wheel is fully raised and secure before commencing any journey.

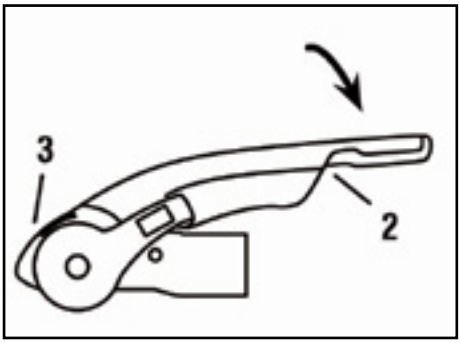


FIG. 4.

Stabiliser Unit
To operate the stabiliser (once coupled to the towball), simply press the stabiliser lever down as far as it will go (Fig. 4/Item 2).

Uncoupling
Pull the stabiliser lever handle up as far as it will go, lift the coupling handle and lift the AKS 3004 from the towball. With larger nose loads, coupling and uncoupling can be made easier by using the jockey wheel to assist lifting.
The friction pads are pressed against the towball and hence generate a stabilising/ damping force. These pads are therefore subject to wear over time; however they will have a long service life (circa. 30,000 miles), provided they are well maintained and kept free of grease/dirt.

Having lowered the jockey wheel to the ground, operate the handle as previously described. Lift the coupling clear of the towing ball either manually or by operating the telescopic jockey wheel.

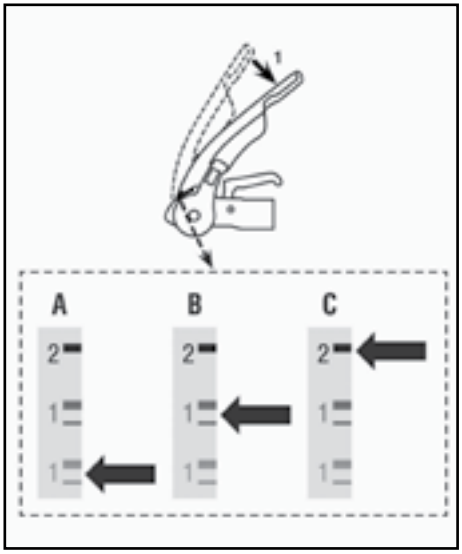


FIG. 5.

Checking the efficiency of the left/right friction pads:
1. Check that the stabiliser is correctly coupled by ensuring the coupling handle is fully down and the red indicator button is in the raised position.
2. Push the stabiliser lever (fig.5/item 1) down until resistance is felt (i.e. the friction pads are in contact with the ball but not yet under pressure).
3. Check the position of the arrowhead on the arm of the stabiliser. If it lines up with the two green lines then the friction pads are still as new (Fig.5/A)

If the arrowhead lines up with the two red lines then the friction pads are worn and should be replaced immediately.

When the stabiliser lever is correctly applied, the arrowhead should link up with the black line marked 2 (Fig 5/C).
The friction pads do not require any form of lubrication and should be cleaned with a fine emery paper prior to every journey. It is not necessary to adjust the friction pads.

Manoeuvring Operation
For easier manoeuvring (on camp sites etc), pull the stabiliser lever to the "up" position.
Please do not use the stabiliser lever as a

manoeuvring handle. Please use the handles on the caravan or fit the AL-KO manoeuvring handle to your jockey wheel (available separately).

1. During opening or closing, the AKS must only be operated by one person.
2. Press the stabiliser lever down by hand only, DO NOT use your foot or an extension bar: this will damage the components (Fig. 6).
3. When opening or closing the stabiliser lever, please ensure your hand does not touch the coupling handle, you may accidentally trap your fingers! (Fig. 6.)

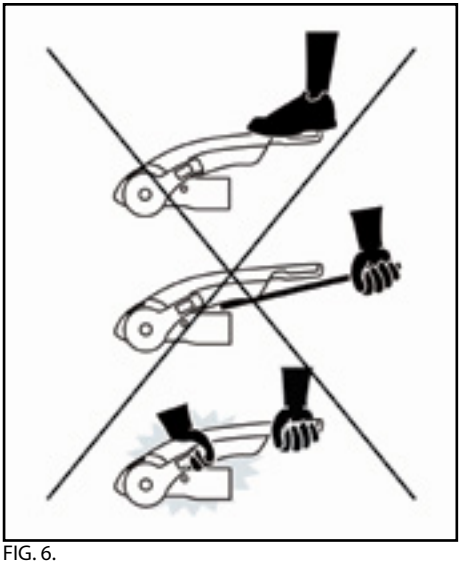


FIG. 6.

Noises while driving

As a rule, the friction pads of the AKS 3004 do not make a noise during driving. Any clicking, creaking or squeaking noises that do arise may be due to the following:

1. Foreign bodies or dirt between the friction pad and towball.
2. Dry operation of the draw-shaft inside the overrun device.
3. A detachable towball which has too much play in the locking mechanism.

Remedial Action

1. Clean the towball and friction pads by lightly rubbing the surface (100-120 grit emery paper)
2. Lubricate the draw-shaft sleeve via the grease nipples. In addition, push the gaiter forward and grease (DIN 51 825 KTA 3K) the exposed part of the shaft (Fig, 7).

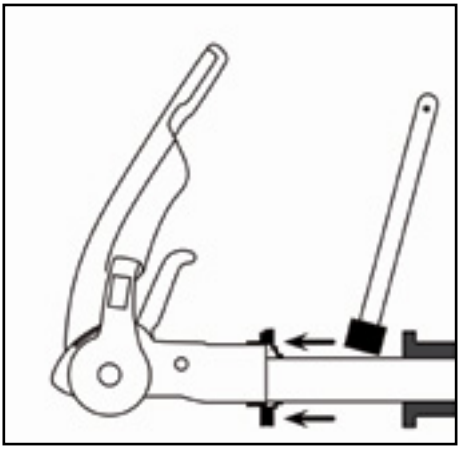


FIG. 7.

1. Visit a specialist workshop to have the ball holding area checked for damage and the locking mechanism for function. If necessary, change the towball.

Storing

To reduce the possibility of contamination of component parts of the AKS 3004 the stabilising handle should be closed.

Towing Ball

The automobile towing ball should measure 50mm maximum and 49mm minimum diameter (DIN 74058). If the ball is below 49mm diameter it should be replaced immediately.

Overrunning Device

The device housing is packed with grease on assembly, but will require periodic maintenance to ensure smooth operation of the braking system.

1. Re-grease the shaft bearings via the grease nipples provided at 3,000 mile intervals, and before storage.
2. Ensure correct functioning of all pivot pins and levers and oil regularly.
3. Ensure correct functioning of handbrake ratchet and oil regularly.

Jockey Wheel

Lubricate wheel and screw thread periodically with grease.

Brake Linkage
All moving parts should be lubricated periodically to ensure their satisfactory operation.

Corner Steadies
The screw and pivot pins should be lubricated periodically to ensure their satisfactory operation.

Braking System Adjustment
(At 500 miles, then every 3,000 miles or 1 year)
1. Ensure the towing shaft with coupling heads is pulled fully forward

2. Release the handbrake to the fully off position. If the handbrake will not go down the whole way because of the fairing or any other obstruction; then the fairing must be cut away and/or the obstruction removed to achieve this desired position. It will not be possible to set up the braking system properly when the handbrake is not in the fully off position (fig .8)

3. Jack up one side of the caravan (see Jack Operation Instructions).

4. Remove the inner plastic bung from the backplate to expose the "star-wheel" adjuster access (FIG.. 8).

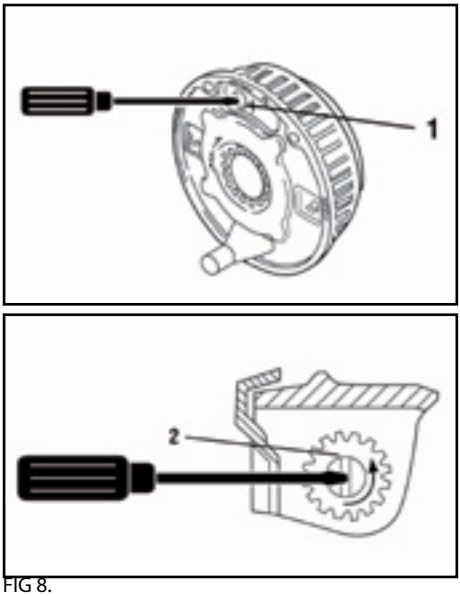


FIG 8.

1. Rotating the road wheel in the forward direction never backwards, adjust the star-wheel with a suitable screwdriver, in the direction of the arrow embossed on the backplate until there is resistance in the wheel rotation (fig. 8)

2. Slacken off the star-wheel adjuster until the road wheel turns freely in the forward direction (fig. 8)

3. Check the adjustment at the end of the brake cable where it is secured to the abutment (bracket) welded to the centre of the axle. When the inner cable is pulled out it should extend between 5 and 8 mm. (On tandem axles a double abutment is fitted to the front axle only.)

4. Repeat for other wheel or wheels.

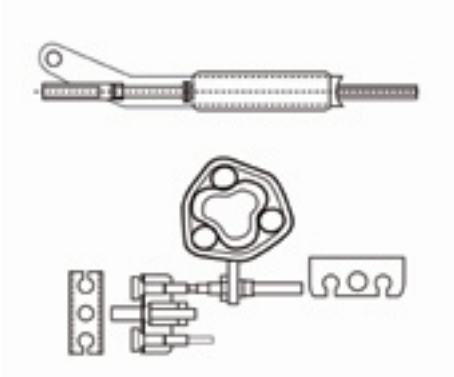


FIG 9.

1. Ensure the balance bar (compensation) is being pulled evenly. This bar (double on tandem axles) should always be paralleled with the axle tube when pulled. Adjust M8 lock and ball nuts, if necessary, to achieve correct parallel position (Fig. 9)
2. Check the brake rod support bracket (fixed to the floor) is supporting the brake rod evenly. The brake rod must always run straight, never bent or curved under any fittings. On tandem axles, using the double balance bar, a brake rod support tube (Part No. 228827) must always be fitted on the end of the brake rod, passing through the centre aperture on the abutment

3. Remove the slack in the brake rod by adjusting the long ball nut, rear of the balance bar, ensuring the overrun lever makes contact with the end of the towing shaft. Over-adjustment to the long ball nut (Fig.10) could induce movement of the inner brake cable, reducing the effective clearance of the brake shoes. If the overrun lever will not make contact, it

is possible the two lock nuts, forward of the spring cylinder, are incorrectly adjusted. Loosen the nuts and adjust the brake rod as above (Figs. 8 and 10).

4. Adjust the two locking nuts, forward of the spring cylinder (Fig. 9) (on some chassis a single Nyloc nut is used) (Fig. 10) to give 1mm of clearance on the spring cylinder. This cylinder (the energy store for the handbrake operation) must be able to rotate only, not slide on the brake rod. (See Fig. 9) If the overrun assembly is fitted with a gas strut handbrake then no spring cylinder is fitted, therefore ignore this paragraph.

5. Correct adjustment of the linkage is checked by operating the handbrake lever so that when the second or third tooth is engaged, a slight braking force is felt on the road wheels

6.Over-adjustment of either the wheel brakes or linkage will result in difficult reversing causing the wheels to "lock-up".

7. When parking, the handbrake lever must always be engaged into the fully upright position (90°). This is to compress the spring within the spring cylinder and thereby create an energy store, which will automatically engage the brakes further should the caravan move.

8. If difficulty is experienced in this operation, try easing the caravan backwards with one hand while engaging the handbrake fully with the other. This manoeuvre should not be attempted on a rearwards facing slope. In this case wheel chocks should be used combined with the handbrake

9. Finally, if the road wheels have been removed, re-tighten using a calibrated torque wrench to 130Nm (on all M12 wheel bolts - in sequence, i.e. North, South, East, West not clock or anticlockwise.) DO NOT over tighten this is just as dangerous as to under-tighten, as this can distort the wheel rims. Avoid the use of power wrenches.

The torque settings should be re-checked after 50km/30 miles. Wheel bolts should never be lubricated.

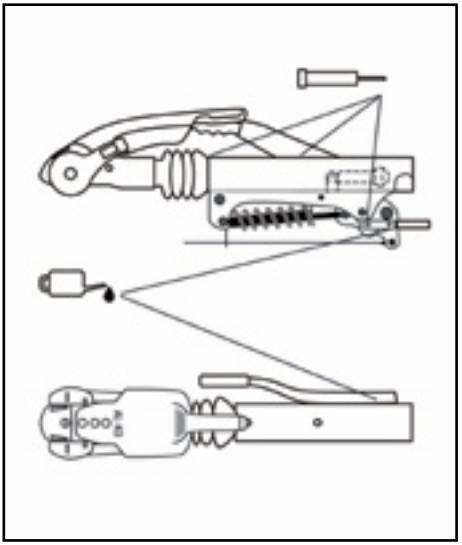
In order to operate the AL-KO braking system correctly adequate traction of caravan wheels is required when reversing. Therefore surface conditions that would result in a lack of traction should be avoided.

Care should be taken when traversing ramps or other obstacles in order to prevent damage to the caravan under gear. When approaching such obstacles reduce towing speed appropriately.

Chassis Lubrication Points

1. Grease the drawbar in the area of the bellows.
2. Grease the bearing bush through the grease nipples on the housing and the cartridge.
3. Grease the pivot bolt of the overrun lever and handbrake levers through the grease nipple.
4. Grease the joint of the brake rod and fitting.
5. Oil the joints of the spring cylinder in the handbrake lever.

Lubricant type: Multi-purpose grease to DIN 51825 KTA 3K4.



AL-KO ATC Trailer Control System
AL-KO ATC is an electronic, emergency control system for caravans and trailers. It automatically recognises critical swinging motions and applies the caravan brakes accordingly to regain control of the caravan and car.

Safety Information
AL-KO ATC is a passive safety product that activates the braking system on the caravan in unsafe driving conditions.

The driver has a responsibility under law to ensure that the elements of towing safety are met, including driving within the legal speed limit, consideration of road, weather and other traffic conditions, and correct loading and coupling of the caravan.

The electrical connection between the towing vehicle and the caravan must be in good working order.

Operating Instructions
After coupling the caravan correctly to the towing vehicle, connect the 13 pin plug to the towbar.

Upon connection, ATC will carry out an initial self test and the LED light on the front fairing will light up on RED. During the self test, the sound of the push rod moving inside the ATC can be heard. When the self test is complete, the LED will turn GREEN or flashing GREEN to signal that the ATC is active.

If the LED does not change to GREEN, then the ATC is not functioning correctly.

Prior to commencing any journey, ensure that the caravan lighting is fully operational and check the vehicle is loaded appropriately, the nose weight and tyre pressures are correct, and confirm that the caravan is coupled to the vehicle with the breakaway cable correctly applied.

Always re-check that the ATC LED is green after any interval during a journey, such as a service station break.

Always disconnect your ATC once parked on a ferry, ensuring you reconnect before you restart the engine and leave the ferry. This will ensure that your battery is not run down during the crossing.

Should you experience any issues with your ATC please contact AL-KO or the supplying Bailey retailer.

Spare Parts
Spare parts are safety critical parts! For this reason when fitting spare parts in our products we recommend the use of original AL-KO parts or those parts that we have explicitly approved. The reliability, safety and suitability of parts designed especially for our products, have been determined using a special test procedure. In spite of constantly monitoring the market we are unable to assess or vouch for other products.
If repair work or servicing is required AL-KO have a large network of AL-KO service centres throughout Europe. A list of service centres can be requested direct if required. Please bear in mind that repairs should only be carried out by trained and qualified workshops/personnel. To establish the correct spare parts the service centres need the ETI number = spare part identification number.

Chassis Members
The recommended tow vehicle coupling height is 385mm +/- 35mm from the ground to the centre of the ball.

Off road vehicles are exempt from this towball height specification.

Manufactured from high quality steel, the chassis has extra deep sections to provide strength at points of maximum stress. Large elongated holes are punched in the longitudinal and towbar ("A" frame) members, to reduce weight to a minimum. Each hole incorporates a return flange to maintain the required strength and provide rigidity in the extra deep sections.

The chassis frame is of a bolted construction which, should the need arise, allows replacement of individual parts.

The chassis is Hot Dipped Galvanised. This is regarded as one of the best forms of corrosion protection. It does, however, require maintenance in certain circumstances.
When new, the chassis is of a bright and shining appearance. As the galvanising cures during the

initial 2- 3-month period, this will gradually change. During this curing period the surface should be protected to avoid possible wet storage stain, a soft, light coloured, porous, oxidation layer. If the chassis members are in contact with any salt deposits from roads they should be washed off immediately with a high pressure washer. Salt attracts moisture allowing the surfaces to remain wet. This prevents curing and also allows formation of wet storage stain.

It is recommended that the chassis be washed off, using a pressure washer, on an annual basis (particularly after winter usage) to avoid undesirable build up of salt and dirt deposits.

The galvanised chassis should not be painted or subjected to any other protective treatment. Should the galvanising become superficially damaged exposing the steel core, then it should be cleaned and treated with a cold galvanising spray obtainable from vehicle accessory outlets.

Damage to chassis members through impact etc. must not be straightened or welded. Damaged chassis members must be replaced.

Drilling or Welding of Parts or Accessories

This chassis is designed and built to precise tolerances and must not be drilled or welded.

Independent Suspension

The AL-KO rubber suspension is designed and developed to suit all types of road conditions and is maintenance-free. Three rubber elements are contained within a hexagonal axle tube. These provide suspension and have inherent damping characteristics. (Only the hubs and wheel brakes require attention, see axle booklet Part No. 580458.)

Coupling Head

The ball couplings are entirely automatic in operation and designed for one-hand operation to suit the 50mm international ball recommended by the British Standards Institution, National Caravan Council and the Society of Motor Manufacturers and Traders.

Brake Drum/Hub Assembly

The Euro Axle fitted to your Bailey caravan comes complete with maintenance-free wheel bearings greased and serviced for life. Adjustment is not required during the design life of the sealed bearing (100,000 km).

- If replacement of the brake drum or shoes is required, this must be carried out by authorised AL-KO Service Centres. Specialist tools and equipment are required. The rear hexagonal bolt covered by a black plastic cover must NEVER be touched.

13. TRACKER RETRIEVE

The TRACKER Retrieve is fitted to Unicorn Models only.

Battery Powered TRACKER Retrieve is a self contained device with its own power source, so the unit doesn't need to be wired into the vehicle's electrical system. This makes it more versatile in terms of both the range of vehicles into which it can be installed and the choice of location within the vehicle.

- TRACKER is operated by all of the UK's police forces
- Tracking equipment is fitted to police cars and air support units
- VHF technology gives you the best chance of getting your vehicle back, even if it is hidden in a container or garage.

What to Do in the Event of Theft?

1. The first thing you must do is call the Police to report the theft.
2. When reporting the theft, ensure you obtain the Crime Reference Number from the Police.
3. Once you have reported the theft, call the tracker 24-hour control room on:

0800 911 900

General Questions

Q. What is the life of my Battery Powered TRACKER Retrieve product?
A. The Battery Powered TRACKER Retrieve product has a 5- year life from the original installation date.

Q. What happens if my vehicle battery is disconnected?
A. Your Battery Powered TRACKER Retrieve product does not require any power from your vehicle's electrical system so is unaffected should the battery become disconnected.

Q. Can my Battery Powered TRACKER Retrieve unit be transferred from one vehicle to another?
A. No. For security reasons the TRACKER unit stays with the original vehicle for its lifetime.

Q. Will my TRACKER system work in Europe?
A. Battery Powered TRACKER Retrieve provides partial European coverage.

How TRACKER
WORKS
1
Activate
Once you contact the police and confirm to TRACKER that your vehicle has been stolen TRACKER will activate your unit.
2
Track
Using our proven VHF technology, the police can begin to track your vehicle.
3
Locate
Using tracking computers in their cars and aircraft the police can locate your vehicle, even inside a container or lock-up.
4
Secure
Once located we will send a uniformed guard to wait with your vehicle anywhere in mainland Great Britain (terms and conditions apply).
5
Recover
Once secured, we will arrange for a recovery company to collect and return your vehicle to anywhere in mainland Great Britain (terms and conditions apply).

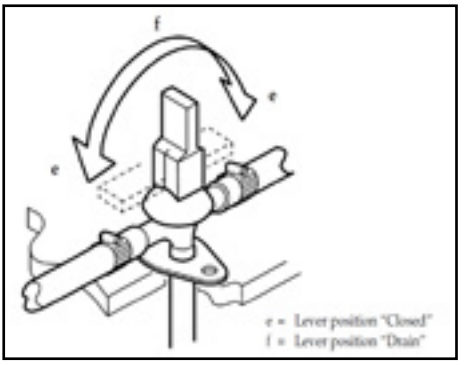
16a. THE UNICORN III SINGLE AXLES AND PEGASUS IV WATER SYSTEM

Water Supply

These models are supplied with a 12v submersible pump, controlled by a pressure switch. The water inlet is located in the off-side exterior wall, protected by a lift up lid. This pump is designed to simplify, the connection of an outside water supply to the caravan system.

The Whale Watermaster comprises a wall socket, plug complete with hose and submersible pump. The plug and socket combine both the water and electric connections. Designed for pumping fresh water into the caravan, the Whale Watermaster is also capable of supplying water to a water heater.

Drain Valve



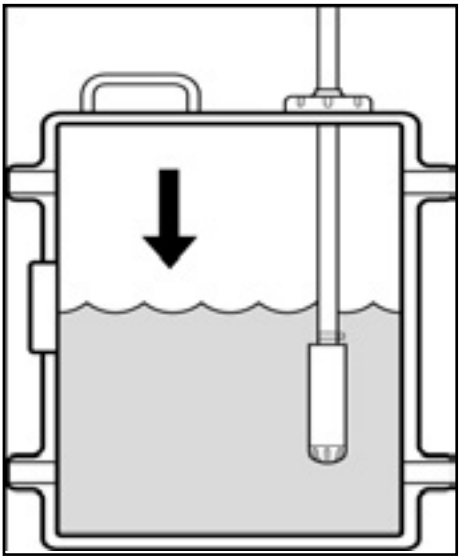
Near to the water heater, which is located underneath on of the front bunks, you will find the drain valve (Pictured above). This valve is used to drain your caravan of all water prior to being in transit.

Before attempting to fill your water system you should always ensure the yellow switch is in the horizontal position (As shown in the picture). This is the normal operating position.

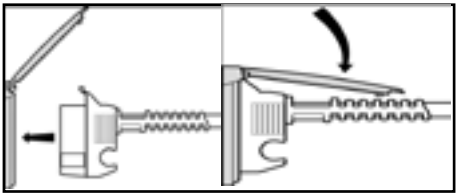
When you wish to purge the system of water (Prior to being in transit) you should place the yellow switch in the upright position. The water system will now purge any excess water in the system.

Operation

- Open one cold tap (e.g. the kitchen sink)
- Place the pump into a water container



- Insert the plug into the wall socket and close the lid to lock plug in place.
- Fit the dust cover over the opening in the container (please note: the dust cover should not air tight to the water container as air must be allowed to enter the container to replace the water being pumped out)

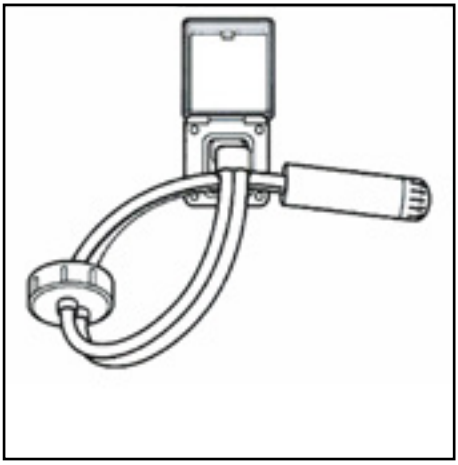


- Switch on 12 volt supply at main panel (isolator switch)
- Water will flow from the open tap expelling any trapped air in a few seconds
- Turn off the tap; the system is now ready for use

The pump hose can be inserted into the groove on the plug to keep pump off the ground while refuelling the water container

Removing the plug:

- Switch off the 12v supply at the control panel (isolator switch)
- Pull out plug from socket using hand grip
- Shut the lid.
- Do not run pump without water.
- Do not use the pump in water temperatures above 40°C (100°F)
- It is best to stand the pump vertically in the tank.
- The micro-switch or phosphor bronze contacts can be removed for inspection or replacement.
- The pressure switch is sensitive to drops in battery voltage. As the voltage falls, should the unit need adjustment, turn anti-clockwise.



Routine Maintenance:
Ensure the hose adaptor O-ring and the socket in the housing are kept free from dirt.
Use only silicone or water-based lubricant on the inlet nipple O-rings on the socket for lubrication.
Service the inlet socket annually (use Whale AK8834 service kit containing all serviceable parts).

Draining and Winterization of the Water System
Bailey caravans may be in use all the year round, but when not in use, even for short periods, this procedure should be followed. One night in freezing temperatures is all that is required for expensive, permanent damage to the water system components.

Ensuring that all water is removed from the caravan's pipework, taps and appliances will reduce the risk of frost damage occurring. Frost damage can occur when water left in the system freezes and expands, causing the pipework and appliances to split, crack or burst.

- Ideally position the caravan so the drain valves are at the lowest point, e.g. tilt the caravan
- Switch off the 12v supply for all pumps at the main control panel (pump isolator switch)
- Open all taps/mixers in the mid position, including the external shower (if fitted)
- Remove the shower handset (including the external shower if fitted) and shake the water out
- Open the water heater drain valve and leave open
- Open the on-board tank drain valve (if present) and leave open
- Where grey waste tanks are fitted, remove all sink plugs and open the drain tap
- Open all other drain points (if present)
- External water components – shake water out of pump/Aqua-source and store inside the caravan
- The shower tray cannot be expected to drain fully, some residual water may remain which will require "mopping up".

It is essential that the level of ceramic ball mixer taps is fully raised and in the central position. Failure to do this will not allow both the hot and cold water system to fully drain and will result in frost damage.

Frost damage cannot be claimed under warranty.

Setting up the water system

- Check all the plumbing connections
- Sterilise the water container and flush the system through with a sterilising fluid
- It is recommended that the water system is checked during the annual caravan service

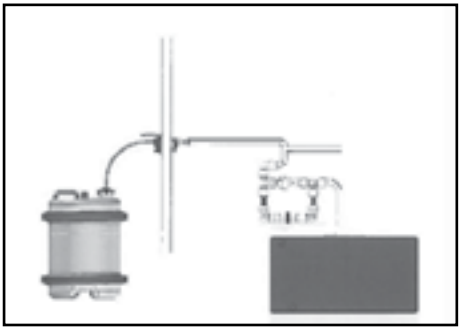
Helpful hints
To obtain efficient running and maximum life, ensure the following:

- There is sufficient water in the container – do not run the pump dry
- All hose connections are firm and tight
- low performance could result from a weak battery

16b. UNICORN III TWIN AXLE WATER SYSTEM

Water Supply

This model is supplied with an on-board 40L tank and inbuilt submersible pump as well as an external 12v submersible pump controlled by a pressure switch. The external pump can be used to supply water directly to the caravan from an outside water supply or it can be used to fill the on-board tank.



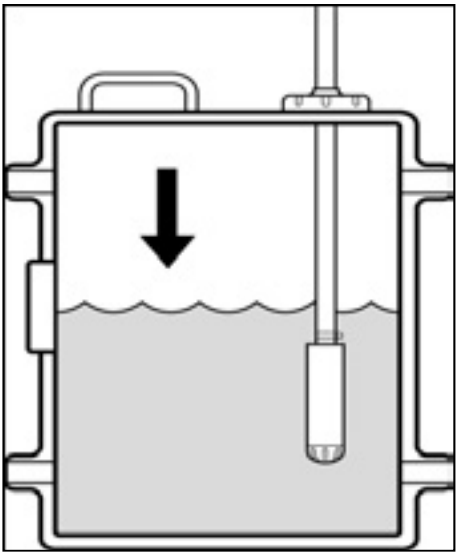
External supply

The water inlet is located in the off-side exterior wall, protected by a lift up lid. This pump is designed to simplify the connection of an outside water supply to the caravan system.

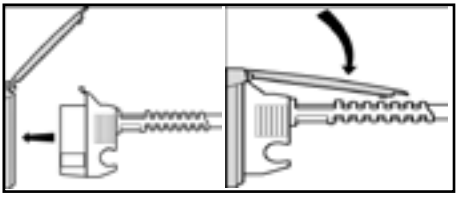
The Whale Watermaster comprises a wall socket plug complete with hose and submersible pump. The plug and socket combine both the water and electric connections. Designed for pumping fresh water into the caravan, the Whale Watermaster is also capable of supplying water to a water heater.

Operation

- Open one cold tap (e.g. at the kitchen sink)
- Place the pump into a water container

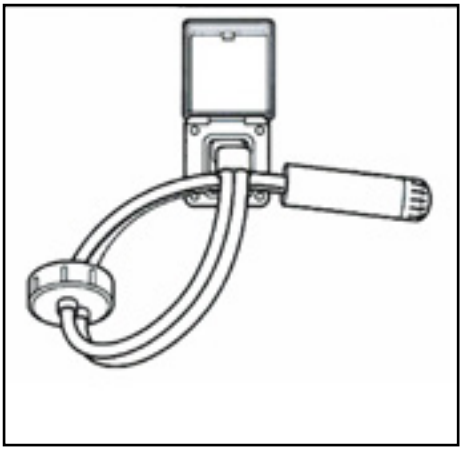


- Insert the plug into the wall socket and close the lid to lock the plug in place



- Adjust the dust cover over the opening in the container (please note: the dust cover should not be secured to the water container as air must be allowed to enter the container to replace the water being pumped out)
- Switch on the 12v supply at the main control panel (pump isolator switch)
- Water will flow from the open tap expelling any trapped air in a few seconds
- Turn off the tap; the system is now ready for use

The pump hose can be inserted into the groove on the plug to keep the pump off the ground while re-filling the water container.

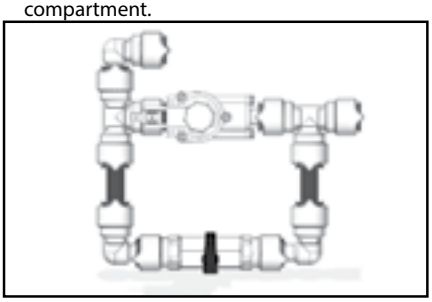


Removing the plug:

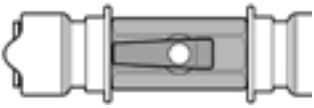
- Switch off the 12v supply at the main control panel (pump isolator switch)
- Pull the plug out of the socket using the hand grip
- Shut the lid
- Do not run the pump without water
- Do not use the pump in water temperatures above 40°C (100°F)
- It is best to stand the pump vertically in the tank.
- The micro-switch or phosphor bronze contacts in the socket can be removed for inspection or replacement
- The pressure switch is sensitive to drops in battery voltage. As the voltage falls, should the unit need adjustment, turn anti-clockwise

Filling the on-board tank

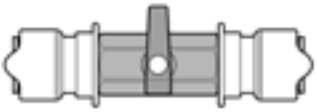
- Switch off the 12v supply for the on-board pump at the main control panel (pump isolator switch)
- Locate the 2-way valve in the heater compartment.



Turn the 2-way valve to the open position

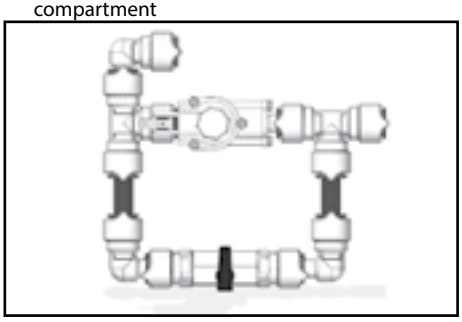


- Switch on the 12v supply for the external pump at the main control panel (pump isolator switch) and fill the on-board tank
- When the water runs from the overflow pipe below the caravan, switch off the 12v supply for the external pump at the main control panel
- Return the 2-way valve in the heater compartment to the closed position

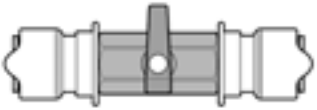


Internal supply

- Open one cold tap (e.g. at the kitchen sink)
- Locate the 2-way valve in the heater compartment



- Turn the 2-way valve to the closed position



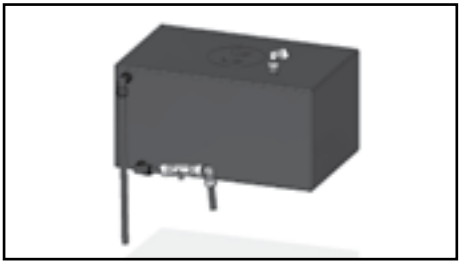
- Switch on the 12v supply for the on-board pump at the main control panel (pump isolator switch)
- Water will flow from the open tap expelling any trapped air in a few seconds
- Turn off the tap; the system is now ready for use
- Do not run the pump without water

- Do not use the pump in water temperatures above 40°C (100°F)
- It is best to stand the pump vertically in the tank.
- The micro-switch or phosphor bronze contacts in the socket can be removed for inspection or replacement
- The pressure switch is sensitive to drops in battery voltage. As the voltage falls, should the unit need adjustment, turn anti-clockwise

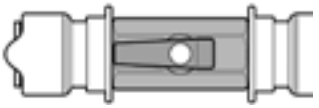
Tank Drain Operation

The tank must be drained prior to travel.

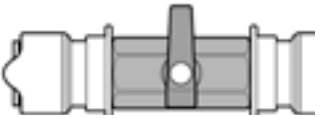
- Locate the 2-way valve attached to the side of the on-board tank



- Turn the 2-way valve to the open position



- The water will drain from the tank beneath the caravan
- Once all the water has been drained turn the 2-way valve to the closed position



Routine Maintenance

Ensure the hose adaptor O-ring and the socket in the housing are kept free from dirt

Use only silicone or water-based lubricant to inlet nipple O-rings on socket for lubrication

Service the inlet socket annually (use Whale AK8834 service kit containing all serviceable parts)

Draining and Winterisation of the Water System

Bailey Caravans may be in use all the year round, but when not in use, even for short periods, this procedure should be followed. One night in freezing temperatures is all that is required for expensive, permanent damage to the water system components.

Ensuring that all water is removed from the caravan's pipework, taps and appliances will reduce the risk of frost damage occurring. Frost damage can occur when water left in the system freezes and expands, causing the pipework and appliances to split, crack or burst.

- Ideally position the caravan so the drain valves are at the lowest point, e.g. tilt the caravan.
- Switch off the 12v supply for all pumps at the main control panel (pump isolator switch)
- Open all taps/mixers in the mid position, including the external shower (if fitted)
- Remove the shower handset (including the external shower if fitted) and shake the water out
- Open the water heater drain valve and leave open
- Open the on-board tank drain valve (if present) and leave open
- Where grey waste tanks are fitted, remove all sink plugs and open the drain tap
- Open all other drain points (if present)
- External water components – shake water out of pump/Aqua-source and store inside the caravan
- The shower tray cannot be expected to drain fully, some residual water may remain which will require "mopping up"

It is essential that the level of ceramic ball mixer taps is fully raised and in the central position. Failure to do this will not allow both the hot and cold water system to fully drain and will result in frost damage.

Frost damage cannot be claimed under warranty.

Setting up the water system

- Check all the plumbing connections
- Sterilise the water container and flush the system through with a sterilising fluid
- It is recommended that the water system is checked during the annual caravan service

Helpful hints

To obtain efficient running and maximum life, ensure the following:

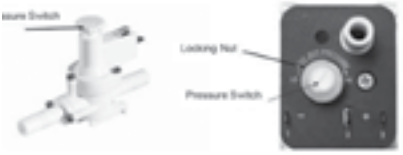
- There is sufficient water in the container – do not run the pump dry
- All hose connections are firm and tight
- The power supply is adequate, low performance could result from a weak battery

Water System Troubleshooting

FAULT	CAUSE	POSSIBLE SOLUTIONS
Pump will not run	No power to pump	Check power supply Check the mains isolator switch is on Check the pump isolator switch is on
	Fuse has blown	Replace fuse (do not exceed recommended fuse size)
	Blockage in pipework	Check pipework for kinks Check pipework for blockage
Pump runs but no water appears	No water available	Check water tank is not empty Check filter cap is not blocked
	Water leaking from system	Check pipework and connections for leaks and repair as necessary Check water system drain plugs are closed
Pump runs but will not switch off	Water leaking from system	Check pipework and connections for leaks and repair as necessary Check water system drain plugs are closed
	No water available	Check water tank is not empty Check filter cap is not blocked
Pump cycles on and off periodically when all the taps are closed (normal with partially opened tap)	Water leaking from system	Check pipework/fittings for leaks and repair as necessary Check water system drain plugs are closed
	Pressure switch	Check pressure switch settings
	Power supply to pump	Check battery is not discharged
Low flow	Blockage in pipework	Check pipework for kinks Check pipework for blockages
	Power supply to the pump	Check battery is not discharged
	Pipework/connections crushed due to over tightened jubilee clips	Replace damaged connections
	Water leaking from system	Check pipework/fittings for leaks and repair as necessary Check water systems drain plugs are closed

Adjusting your Pressure Switch

Your pressure switch is factory set and should not normally require adjustment. However, adjustment may be required if the power supply voltage has varied from the previous setting, either due to battery drainage or higher voltage being supplied when the battery charger is operating. In the event that your pump doesn't switch off when you close the taps, or it pulses on and off rapidly when the taps are fully open, follow these guidelines to re-adjust the pressure switch setting.



Pressure Switch Setting

Ensure the system, including the heater is full of water and all taps are closed. Refer to your user manual.

Tighten the adjusting screw clockwise until the pump comes on. (For integral socket based pressure switches, first loosen the pressure switch locknut in an anti-clockwise direction.)

Open any tap until you have a smooth flow of water, then close the tap. You should hear the pump running and the pump running light if fitted will be on.

Return to the pressure switch and turn the pressure switch adjustment screw slowly anti-clockwise until the pump has stopped Turn the screw a further half turn (180 degrees) anti-clockwise.

Check for correct operation by opening and closing all taps individually. The pump should turn on when the cold tap is opened and switch off immediately when the cold tap is closed. NB. There will normally be some pulsations at low flows.

The hot side may take about 10 seconds to react (both on and off) due to cushioning effect in the water heater.

For integral socket based pressure switches, carefully tighten the locknut until it is tight keeping the adjustment screw in position.

THREE GOLDEN RULES:

1. NEVER allow the pump to run dry
2. NEVER allow the pump to run continuously for more than 15 minutes
3. The pump assembly MUST be unplugged BEFORE putting the pump back into the refilled water container.

If setting of the pressure switch is still not correct you may experience:

Pump running continuously, even with tap closed. If undiscovered, could result in pump failure and flat battery. Most likely causes are that present voltage is significantly lower when last adjusted, or water container is empty.
CURE: Re-adjust switch or refill container

Pump does not run at all. If not due to blown fuse or faulty connections, then most likely cause is excessive continuous running (see above) **CURE: Replace pump and re-adjust switch**

Pump runs intermittently ON, OFF, ON, OFF etc. Seen as pulsing flow from tap, or as inability to set constant water temperature, water goes hot, cold, hot, cold instead of constant warm. Most likely cause is that present voltage is significantly higher than when last adjusted.
CURE: Re-adjust pressure switch, if problem persists add a Whale Surge Damper (WS7205).

Pump runs very noisily but does not pump water. Likely to occur after water container has been refilled. Pump is air-locked and is fighting to get air out and water in.
CURE: Unplug from the socket, allowing pump to flood, and reconnect by plugging in again. The correct sequence when refilling the container is to unplug, put pump into container, then reconnect.

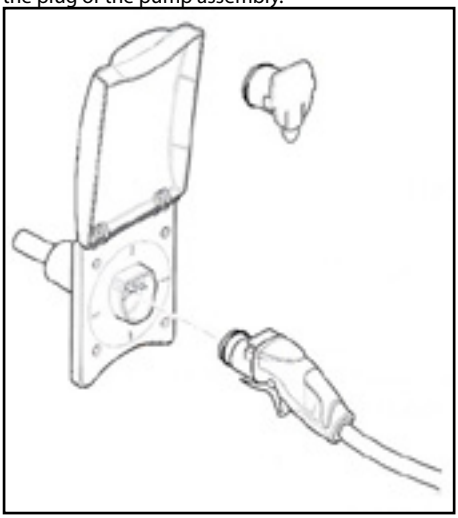
Pump continues to run for up to 30 seconds after tap is turned off. This is not a problem. This is a characteristic of pressure switch systems caused by the dampening effect of the hot water heater or surge damper on the cold side.

If after following these procedures the system continues to pulse when all taps are closed there may be a leak in the system.
Please contact Whale Support for further guidance.

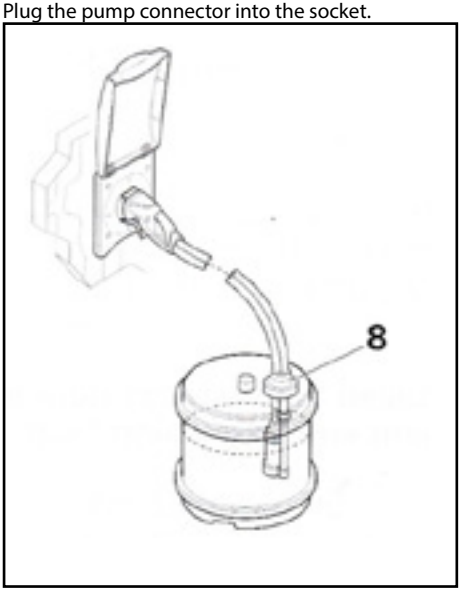
14c. THE PURSUIT WATER SYSTEM

Truma Ultraflow Operating Instructions

Raise the lid, clean both the water socket and the plug of the pump assembly.



Plug the pump connector into the socket.



Place the pump into the water container, ensuring that it is fully submerged before operating the system. The dust cover (8) is to stop contaminates falling into the water container.

To remove the pump assembly from the Ultraflow Compact Housing, pull the trigger and pull out the hose plug.

Do not remove by pulling the hose or electrical cable.

Routine Maintenance

Ensure that the O-ring seals in the hose plug and the socket are free from dirt.

To aid fitting of the plug assembly smear the O-ring with vegetable oil.

Notes

Never allow the pump to run dry. Always ensure that the pump is submerged in the water or the life of the pump will be reduced.

Before winter storage the water system must be completely drained.

Clean the water system at the start and end of the season with sterilising fluid (see notes below).

If the pump fails to deliver water, the most likely cause will be air in the system. Switch off the pump and shake the pump assembly in the water. Then switch on the pump again.

Sterilising

When cleaning the water system at the start or end of the season it is advisable to use non-chlorine-based sterilising fluid.

Flush the system thoroughly to remove the effective fluid traces.

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17. THE GAS SYSTEM

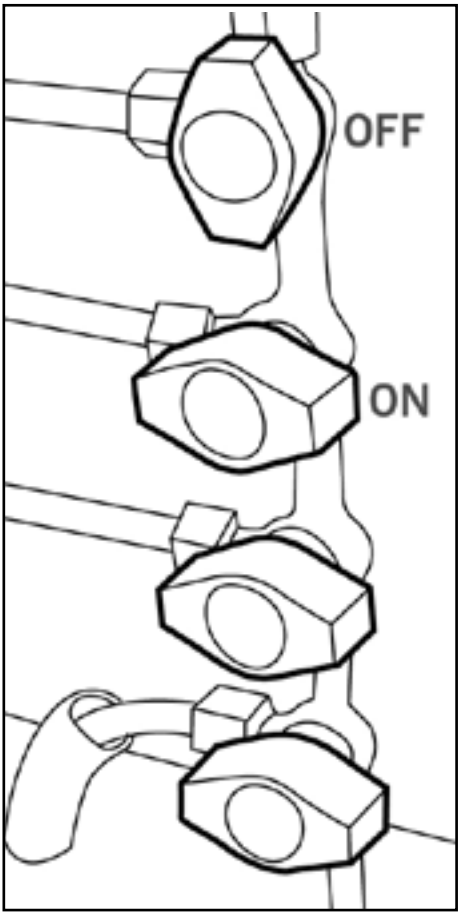
All gas appliances fitted to your Bailey caravan are suitable for operation on both butane and propane without the need for adjustment.

General information
Gas cylinders: Bottled liquefied petroleum gas (LPG) is the most convenient portable source of fuel for your caravan.
Cylinders are available in the following sizes:
Calor Gas = 3.9kg, 4.5kg, 6kg and 7kg.
BP Gaslight = 5kg and 10kg.

The gas system meets BS EN 1949:2011 and should only be modified by a competent person.

Never use portable cooking or heating appliances, other than electric heaters that are not direct radiant type, as they are a fire and asphyxiation hazard.

Types of gas
Butane
Butane is supplied in the UK in green or blue bottles.
Continental bottles usually have a male left hand thread similar to but not identical with UK Butane.
Butane is suitable for use at temperatures down to 2°C but will not work below that temperature.
Propane
Propane is supplied in red, or partly red bottles that have a female left hand threaded connector.
Scandinavian countries use the same connector.
Germany and Austria supply propane with a male connection.
Propane will work at temperatures as low as -40°C and is therefore suitable for all winter caravanning.
Make sure that heating, cooking appliances and gas cylinders are switched off before you move the caravan.
All gas appliances in your tourer can have their gas supply individually isolated by turning off the relevant tap. The tap is located either on the centrally positioned gas manifold or directly beside the appliance.



Regularly check flexible gas hoses, joints and connections for tightness.
Finally make sure that each gas appliance is working efficiently to the recommendations of the appliance manufacturers.

The Regulator
The regulator is a governing device which adapts the bottle pressure to one that suits the equipment in the caravan.

Your caravan is fitted with a regulator as standard equipment. This is located in the caravan gas box. The gas regulator has a working pressure of 30m bar and is suitable for both propane and butane liquefied petroleum gas. There are dedicated hoses available for different types of gas/gas bottle. They are also available for camping gas and other

mainland Europe LPG suppliers. Please contact your retailer who will have a stock of these hoses.

Some industrial LPG appliances operate at high pressure and require a "high pressure"' regulator. This often has an adjusting handle on it. Never use such a regulator on a caravan.

- Propane and butane gas regulators are not interchangeable.
- Always ensure that the gas system is inspected/maintained every 12 months.
- In the event of a fire ensure all occupants evacuate the caravan via the nearest escape route.
- If you suspect a gas leak then immediately turn off the supply of gas at the yellow isolation tap located below the regulator in the gas box. Then turn off the gas valve on the gas bottles. When this has been completed the system must be inspected by a competent person.
- Never use gas bottles located outside the caravan gas box. Do not use any gas extension hoses.
- Gas barbecue, always use gas appliances that are suitable for use at 30mbar.

Changing Gas Cylinder

Ensure that the cylinder is empty, then:

- Turn off the tap located by the gas regulator
- Turn off cylinder valve and all gas appliances
- Remove the gas hose regulator from the cylinder
- Release retaining strap
- Remove cylinder from gas locker and stand on ground
- Fit plastic protecting cap to cylinder

With the full cylinder:

- Before placing cylinder in the cradle ensure that the tray is clean and free from any debris. Cleaning should be carried out only with warm soapy water
- Place cylinder in cradle in gas locker
- Remove plastic protector from cylinder
- Connect the gas hose
- Connect retaining strap
- Turn on cylinder valve and then systematically relight appliances as required

Gas Safety Advice

LPG is poisonous.

There is a danger if all air and oxygen were excluded. (Ventilation holes must be kept clear at all times and must not be obstructed.)

The manufacturers have given LPG a smell in order to identify leaks.

Gas Leaks

If a smell of gas becomes apparent, the supply should be turned off at the cylinder immediately.

Extinguish naked lights including cigarettes and pipes. Do not operate electrical switches. Open all doors and windows to disperse any gas escape.

Butane/propane gas is heavier than air; any escaping gas will therefore collect at a low level. The strong unpleasant smell of gas will enable the general area of the leak to be detected. Check that the gas is not escaping from an unlit appliance. Never check for leaks with a naked flame. Leak investigation should be carried out using a leak detector spray.

Do not operate any electrical apparatus whatsoever, especially light switches.

If the leak is not obvious, the caravan should be evacuated and a competent service engineer consulted.

Avoid naked lights when connecting or changing a cylinder. Ensure the gas valve is turned off.

Regularly inspect the flexible gas hoses for deterioration and renew as necessary with approved type (all hoses should be replaced before the expiry date marked on the hose or after a maximum of five years).

Keep gas bottle containers outside (and protected against frost). If they must be kept inside make sure they are well away from heat.

Ventilation

All ventilation complies with EN 721 and vents should not be obstructed in any manner as this could lead to insufficient fresh air. In this case the confined atmosphere becomes depleted of oxygen which leads to the formation of the highly poisonous gas carbon monoxide. Carbon monoxide is odourless, colourless and tasteless and will rapidly cause unconsciousness and death with little or no warning prior to collapse.

⚠ Under no circumstances should the caravan's ventilation be blocked or obstructed in any way.

High level ventilation is via the roof lights. The low level ventilation is via the vents in the floor at the front of the caravan living area directly behind the front bulkhead. With multi-berth layouts the rear sleeping compartments have their own low level ventilation. Please consult your caravan retailer for its location.

The mesh screens fitted should be kept free of obstructions by dust, leaves, insects etc. Inspect regularly and use a brush and soapy water as necessary. It may be necessary to remove the weather shield located on the underside of the floor of the caravan to gain access for cleaning.

All roof-mounted flue installations should be inspected once a year throughout their length for corrosion. Flues should be replaced if any sign of perforation is found. Ensure that the replacement is of an approved type. Check that the external roof seal is seating correctly and the locknut is fully tightened.

⚠ Do not make any additional openings in the floor.

⚠ Appliances such as cookers with naked flames should never be used for room heating.

⚠ No appliance shall be used inside when being connected to the external BBQ socket.

Gas BBQ point

The external gas BBQ point should be used as a connection outlet only and should not be used as a gas inlet.

18. THE ELECTRICAL SYSTEM-230v

As in the home, care must be exercised when handling mains electricity.

Instructions for electricity supply - low voltage (230 v)

On arrival at caravan site

Before connecting the caravan installation to the mains supply:

- Check that the mains supply is suitable for your installation and appliances, e.g. whether it is AC or DC and whether it is at the correct voltage, frequency and polarity.
- Check that your installations will be properly earthed. Never accept a supply from a socket outlet or plug having only two pins, or from a lighting outlet.
- Check that any residual current device (RCD) or (earth leakage circuit breaker) in the mains supply to the caravan has been tested within the last month. After connection to site supply, test again.

- Make sure that the switch at the site supply point is off.
- Make sure that the caravan RCD unit is switched off.
- Remove any cover from the electricity inlet provided on the caravan, and insert the connector of the supply flexible cable.
- Remove any cover from the socket outlet provided at the site supply point, and connect the plug at the other end of the supply flexible cable to this. Switch on the main switch at the site supply point.
- Switch on the caravan RCD unit.

In case of doubt, consult the site owner or their agent.

On leaving caravan site

- First switch off the site supply.
- Switch off the caravan RCD unit.
- Then disconnect the pitch lead.
- Replace the cover of the socket outlet at the site supply point. It is dangerous to leave the supply socket or supply flexible cable live.

If you encounter difficulty consult an approved electrical installation contractor (which may be the local electricity board). It is dangerous to attempt modifications and additions yourself.

Lamp-holder plugs (bayonet-cap adapters) should not in any circumstances be used.

Every 12 months, the caravan electrical installation should be inspected, tested and a report on its condition obtained as prescribed in the Regulations for Electrical Installations, published by the Institute of Electrical Engineers.

Generators

- Switch off all appliances, the miniature circuit breakers and the residual current device.
- Start the generator and allow to run for a few minutes to stabilise.
- Connect the caravan to the generator.
- Switch on 16 amp miniature circuit breaker.
- Switch on the residual current device.
- Switch on the fridge (230v phase) or plug in a 230v light to one of the 13 amp sockets.

This is to provide a load on the generator and help remove any “spikes” in the supply which can damage the charger unit.

- Switch on the 5 amp miniature circuit breaker and any other appliances you require.

It is always advisable to have at least one other mains appliance switched on with the charger unit to minimise the chance of damage to it.

Do not connect the 12v output of the generator to the battery terminals. The AC ripple must not exceed 10%.

Overseas Connections

Connection to a mains voltage supply overseas requires particular attention.

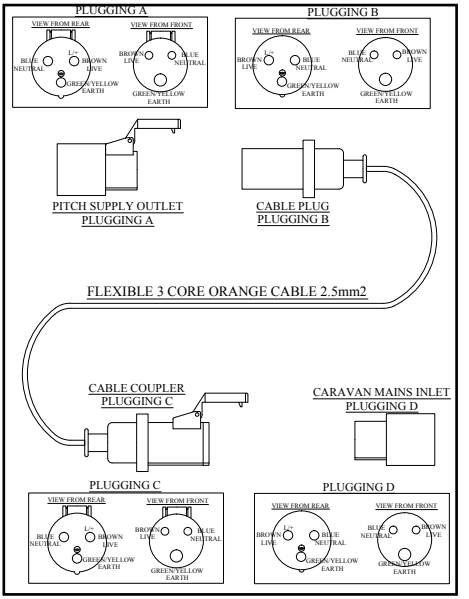
Care must be taken when connecting supplies abroad since the supplies can be of reverse polarity. The significance of reverse polarity is that when equipment is switched off it may not be electrically isolated.
The only certain way of making equipment safe is to unplug it.
A means of checking the polarity of the mains supply when overseas is useful.

There are several proprietary makes of equipment for the purpose available (e.g. Martindale tester unit).
If it can be achieved, it is preferable to connect live to live, and neutral to neutral to maintain full electrical protection.
Check all caravan equipment is set up to accept the site supply before actually switching on.

Mains Unit
The mains unit replaces the conventional fuse box. Similar but larger units are often fitted in newer houses.
The unit gives overload and earth leakage protection for the 230v electrical supply in your caravan.
For normal operation all switches on the unit need to be in the ON position. The switches on the left of the unit are known as MCBs (miniature circuit breakers).
These take the place of the conventional fuse but are more convenient.
In the event of a fault the MCB trips e.g. automatically moves to the OFF position.
After elimination of the fault the M.C.B. can be re-set by switching to the ON position. (Against the spring pressure in an upwards direction.)
If an earth fault develops or a person was to touch a live piece of equipment the leakage of current to earth should immediately operate the RCD (residual current device) and "trip" the main switch, to the OFF position.
This switch is only re-settable after elimination of the fault.
To re-set, operate the switch as for MCBs
Everytime you connect to a site supply the RCD should be checked by operating the test button marked "T". The unit should immediately switch to the OFF position. If the unit does not switch off then a qualified electrician should be consulted.
If the unit does switch off, the test is complete and the switch can be re-set restoring the supply back to normal.

Having too many appliances switched on at the same time will trip the MCB. This is a safety measure.

It is essential that connections are made exactly as shown. If terminal markings are not in accordance with the diagram they must be ignored. If in doubt consult a qualified electrician.



Always disconnect the electrical connector between the towing vehicle and the caravan before connecting a 230v supply to the caravan and before charging the caravan battery by any other means.

It is possible that all of the 230v mains electrical equipment may not be able to be operated simultaneously. A typical UK caravan park mains hook-up point provides a maximum output of 16 amps and on some continental sites the available output may be as low as 5 amps. If your loading exceeds the site supply it may trip the park's circuit breaker. Please check the available mains output with your site operator.
The following items need to be added together if used simultaneously.

230V Mains equipment typical consumption figures:

Fridge .... .0.5 amps
Colour TV .....2.5 amps
Charger .....1.0 amps
Microwave .....10.0 amps
Air conditioning.....4.0 amps
Blown/convection air heating .....8.7 amps

19. THE ELECTRICAL SYSTEM- 12v

Your caravan is fitted with a 12v charger as standard. This converts the 230v AC supply into 12v DC. This enables the 12v equipment in the caravan to function and charges the caravan leisure battery. A fully charged caravan leisure battery should read 13.8 volts on the voltmeter mounted in the control panel. The charger is capable of charging leisure batteries and will not overcharge.

The 12v system is designed to operate with a leisure battery in circuit and should not be turned on without one connected. The 12v supply to the caravan services can be isolated via the 12v on/off switch on the control panel.

Auxiliary Battery Storage/Mains Inlet

The battery and 230v mains inlet are located in a special locker mounted in the side of the caravan on the Pursuit range. The door frame has a cable recess allowing the door to be locked when the mains cable is connected.

This locker will accommodate a battery up to 110 amperes/hours capacity.

The battery/s are located in the floor of the Unicorn III and Pegasus IV.

The battery must be placed in the tray provided in the battery storage compartment, and must always be used.

A battery of not less than 40-50 amperes/hours capacity is recommended. Crocodile clips should never be used to connect the battery, and terminals should be shrouded. Always switch off all appliances and lamps before disconnecting the auxiliary battery.

The battery should be secured to prevent movement when towing.

Metal objects should not be stored in the battery box.

Where a 12v extension is used between the tow-car and caravan, this should not exceed 5 metres in length- minimum cable size 2.5mm to minimise voltage drop.

DIY modifications/additions to the wiring systems are not recommended,. Always consult your retailer who will be pleased to carry out such work.

Do not continuously charge the battery when the caravan is not in use.

Switch off all appliances before disconnecting the battery.

Negative connections should always be disconnected first and reconnected last.

Car type battery chargers are not suitable for charging a leisure battery and may damage it.

When not using the caravan always ensure that the fridge control knob is turned to the "off" position. Failure to do this will result in a flat battery due to 12v power drain from the fridge circuit relays.

Battery Box Connections

The Pegasus IV range is fitted with a 12v external solar panel connection point. This can be found under the caravan mains inlet inside the battery box.

The Unicorn range also features a connection for a free standing external satellite dish. This connection is also located on the side of the vehicle along with the external 230v socket.

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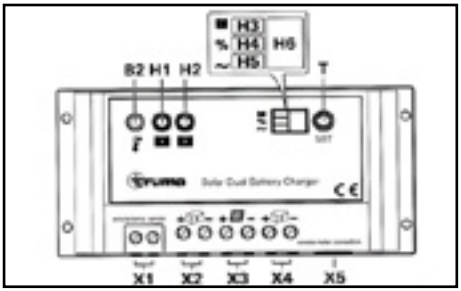
20. UNICORN SOLAR DUAL BATTERY CHARGER SDC 10/20

The solar module generates power when light is cast on it. The full voltage is also available even if there is little light. The solar automatic charger only serves to charge 12v (24v) lead accumulators comprising 6 (12) single cells (e.g. leisure battery) with a capacity of 50-100Ah (SDC 10) or 50-200Ah (SDC 20) The preferred application fields for the automatic charger are batteries with gel, AGM (Absorbed Glass Mat) or liquid electrolyte.

The device is not suitable for charging:
- 6v batteries or 6v lead accumulators
- Non-chargeable batteries
- Nickel-cadmium batteries

The device is only suitable for regulating solar modules. Do not connect any other voltage sources (e.g. main voltage 230v) to the device. This may destroy the device, sources or both. If any other voltage sources are used together with the device, please ask your retailer regarding compatibility.

Operating Instructions



H1 LED: Function display battery 1
H2 LED: Function display battery 2
H3 LED: Battery type- AGM, gel, liquid
H4 LED: Charging current distribution
H5 LED: PWM charging frequency
H6- shows the values of H3, H4, H5 as numbers
T Query/change operating mode
B2 Internal Temperature sensor
X1 Connection for temperature sensor B1
X2 Connection for battery 1
X3 Connection solar module
X4 Connection for battery 2
X5 Connection (RJ-45) for remote display (optional)

Function
The device has a modern microprocessor-controlled pulse with modulated three-phase charging characteristics. This allows high performance combined with a light weight and small dimensions. By virtue of the high-quality electronics, it works highly efficiently. The automatic charging process preserves the device and does not overcharge the batteries. This in turn extends the service life of the batteries significantly. It is suitable for batteries with liquid, gel or AGM technology and has a settable charging current distribution for two separate battery connections.
The device is designed for continuous operation and parallel mode. Consumers can be continuously connected, switched on or disconnected. Consumers are supplied and the batteries are charged at the same time. The consumer current here should be smaller than the solar charging current otherwise the battery will not charge.
If the device is operated in conjunction with an external temperature sensor for the supply battery (battery 1), the device regulates the charging voltage automatically depending on the battery temperature. This ensures particularly effective and gentle charging of the battery. If an external temperature sensor is not used, the device regulates the charging process based on the internal temperature sensor.
The supply and starter batteries can be charged by connecting one or several solar modules. Please observe the maximum voltage and power consumption values.

Charging process
The device has an electronic reverse voltage, reverse current and solar short-circuit protection. The charging current is only released if the battery is connected correctly and there is enough power available from sunlight. When a temperature sensor is used, charging takes place on a temperature-dependent basis.

Bulk phase
Charging with maximum available solar charging current until the charging end voltage is reached.

Absorption phase
The charging current is kept for a period of 2 hours. At the end of this period, it changes to the float phase.
Float phase
The charging voltage is set to 13.8v. The charging current drops to the value necessary to compensate the self-consumption of the battery. Power is still supplied to the consumers. If the consumed current exceeds the available solar charging current, the charging process can no longer be maintained.
If the battery voltage drops below 13.3v, the device automatically switches to the bulk phase, if there is adequate solar charging current.

Equalisation charging phase (only for AGM and liquid electrolyte battery type)
The equalisation charging phase serves to compensate the cell voltages and can reduce any sulphation. If the voltage of the battery drops below 11.1v, it is assumed that the battery has deep-discharged. The device is switched to the equalisation charging phase for 2 hours. At the end of this period, it changes automatically to the float phase.

Deep-discharged batteries can be permanently damaged. Equalisation charging cannot repair this. Use a Truma battery monitor to prevent deep-discharging.

- Liquid electrolyte batteries can create explosive gases, so ensure there is adequate ventilation.
- Check the liquid level at regular intervals. Overcharging can damage your battery; check the technical data for your battery.
- Equalisation charging increases the charging voltage; this may damage the consumer. Ensure that all consumers are designed for these voltages.

Parallel mode
If load current is consumed while the battery is being charged, it is served from the available solar charging current. If the consumed current exceeds the available solar charging current, the device cannot charge the battery. The device starts charging automatically once an adequate amount of solar charging current is available again.

Settings;
The display H6 shows different system settings. Press the key (T) to switch between LED H3, H4, H5 and H6. If the key is pressed again, the system starts at LED H3 again.

Battery type
The battery type can only be set for battery 1; battery 2 is assumed to be the same battery type.

Query
- Press (T) until LED H3 illuminates; the saved value is shown in display H6.

Display	H6 Battery Type
1	Gel (pre-setting)
2	AGM
3	Liquid (liquid electrolyte)

Change
- Press key (T) for 5 seconds until the display H6 flashes.
- Press the key (T) to set the required value.
- If the key is not pressed for 5 seconds, the displayed value will be saved and flashing stops.

Charging current distribution
The charging current distribution between battery 1 and battery 2 can be set. The following distributions can be selected.

Query
- Press (T) until LED H4 illuminates; the saved value is shown in display H6.

Display H6	Battery 1	Battery 2
0	0%	100%
1	10%	90%
2	20%	80%
3	30%	70%
4	40%	60%
5	50% (pre-setting)	50%
6	60%	40%
7	70%	30%
8	80%	20%
9	90%	10%

Change
- Press key (T) for 5 seconds until the display H6 flashes.
- Press the key (T) to set the required value.
- If the key is not pressed for 5 seconds, the displayed value will be saved and flashing stops.

During the normal charging process, the device divides the charging current between battery 1 and battery 2 as set. Once battery 1 is fully charged, all the charging current is fed to battery 2, regardless of the set value. If the voltage of battery 1 drops, the charging process starts again. If only battery 1 is connected, the entire charging current is supplied to this battery regardless of the set value.

PWM charging frequency
The pulse frequency of the device can be set here. This may be changed to reduce possible interferences.

Query
- Press (T) until LED H5 illuminates; the saved value is shown in display H6.

Display H6	PWM charging frequency
0	25Hz (pre-setting
1	50Hz
2	100Hz

Change
- Press key (T) for 5 seconds until the display H6 flashes.
- Press the key (T) to set the required value.
- If the key is not pressed for 5 seconds, the displayed value will be saved and flashing stops.

Function display / Troubleshooting
LED H2 shows the status of battery 1.
Battery 2 double the values of the 12v- to work out the 24v values

Display	Cause/Rectification
LED flashes	Check connections from the device to the battery and solar module, ensure that they are connected to the right terminals. Test the fuse, solar module and battery
LED flashes in longer intervals	Battery is fully charged
LED shines	The battery is being charged
LED flashes in short intervals	The battery is not being charged. If necessary, replace faulty battery
LED does not shine	Battery not connected or over-voltage

If this does not solve the problem, please contact the Truma Service.

Repairs
Do not repair or modify the solar panel. Please contact your retailer or the Truma Service.

11. EXTERIOR FEATURES

GRP

GRP components need to be washed, waxed and cared for like a car. Chemicals and dirt can collect during storage, and the outer surface called a gel coat can be stained or marked when chemicals combine with rain or dew. Most stains or marks can be removed with mild dish-washing detergent, but more stubborn marks may require a rubbing compound. To help keep your GRP components looking almost like new, it is wise to wash the parts monthly (or more frequently) using mild dish-washing detergent, but avoid using strong alkaline (e.g. tri-sodium phosphate) or acidic cleaners or abrasives. Waxing the components once or twice a year with a good grade paste wax will help to maintain the colour and finish.

ROOFLIGHTS

HEKI Rooflights
Operating, Safety and Care Instructions HEKI

1. Opening in the tilt setting
a) Press the locking buttons at both catches on the glass and turn inwards through approx. 90°.
b) Grasp the bar in the middle, unclasp from the anchoring fasteners, swivel the bar down and push the glass dome upwards. (Glass dome is assisted after approx. 150mm by the two pneumatic springs.)
c) Swivel the bar towards the glass dome and clip into position.
To close the HEKI, perform steps (a–c) in reverse order.

2. Opening in the intermediate setting
a) Open both catches on the glass.
b) Grasp the bar in the middle, unclasp from the anchoring fasteners, swivel down and push the glass dome upwards. (Glass dome opens automatically after approx. 150mm through the two pneumatic springs.)
c) Open both fasteners, and swivel the bar towards the intermediate setting and pull the glass dome down until the bar rests in the hold.
d) Secure the bar with the two fasteners.
To close HEKI, perform steps (a–d) in reverse order.

3. Opening in permanent ventilation setting
a) Open both catches on the glass.
b) Push glass dome up approx. 2cm with both hands on the two catches and turn the catches to fix them in the ventilation setting.
To close HEKI, perform steps (a–b) in reverse order.

4. Closing the blind
a) To close the blind, grasp the end rod (without grip) in the recess and engage in the opposite end rod (with grip).
Caution! When the sun is shining brightly, the blind may only be closed 2/3 and the glass dome must be fixed in the "permanent ventilation setting".
b) You can move both joined end rods to adjust the blind to the required position (black out/fly screen/ sun shade).

5. Opening the blind.
a) Move the blind right out to the side (end rod with grip).
b) Holding the recess with one hand, press the rocker with the other hand and guide the blind back into position.

Safety instructions:
- Do not stand on the acrylic glass.
- Close HEKI completely before moving the vehicle.
- Close HEKI when leaving the vehicle.
- Please consult your dealer when any defects or problems occur.
- Remove snow/ice or other dirt from the roof before opening HEKI.
- Do not open in strong winds or heavy rain.

Care instructions:
- Please clean the acrylic panes with the Seitz Acrylic Cleaner.
- Stains and light scratches on the acrylic pane can be removed using the Seitz Acrylic Polish and Seitz special polishing cloth.
- Only use water and mild soap suds to clean the blinds.
- Failure to comply with these instructions makes the guarantee null and void.

MPK Rooflight

The MPK roof light is situated in the bathroom of your caravan over the shower compartment.
It is fitted with a fly screen for your comfort. The fly screen is hinged, allowing you access to the handles that enable you to raise the rooflight's dome for ventilation.

To raise the dome pinch the black parts of the handle against the other half on both sides and push upwards. Both sides can be raised or just one, depending on your preference.

Roof Air Conditioning from Dometic

The most compact roof air conditioner on the market

Dometic FreshJet 1100, 1700 & 2200

- 3 performance levels for vehicles up to 5m, 6m or 7m in length
- Very low starting currents - FreshJet 2200 with Soft Start
- Air diffuser with four adjustable air flows
- LED lighting, remote control

KONIG KUNDE AWARD 2014 1. PLATZ REISE MOBIL

BEST BUY ★ REISE MOBIL INTERNATIONAL 6/2014 FreshJet 2200

pro mobil DIE BESTEN MARKEN 2014 1. PLATZ

Vehicle length: 5m, 6m, 7m

For further details please contact your local Bailey dealer
or visit: **www.dometic.co.uk**

Dometic

22. CARBON MONOXIDE ALARM

A FireAngel CO-9B battery-operated alarm is fitted near to the ceiling in your caravan.

Features

- An advanced electro-chemical sensor designed to accurately measure low–high levels of carbon monoxide (CO) providing an early warning of toxic CO levels in your caravan.
- Detects carbon monoxide continuously.
- Resistant to false alarms caused by usual household contaminants.
- Sounds a large 85dB alarm (at 1 metre (3 feet)) to alert you in case of an emergency.
- Test/Reset button.
- Simple to mount, portable, ideal for travelling.
- Conforms to the British Standards Institute (BSi) Carbon Monoxide Standard BS EN 50291: 2001.
- 7 year warranty.
- Test the sounder, batteries and circuitry.
- Allows you to test the sensor by introducing a source of CO into the detector.
- Silence the loud 85dB sounder during an alarm (only possible when current CO level is less than 50ppm (Parts Per Million the accepted level of carbon monoxide in the air).

Testing the Sounder Batteries and Circuitry.

- Test the sounder, batteries and circuitry by pressing and holding the Test/Reset button for 1 second to confirm that the detector is operating properly. The sounder should sound as soon as the button is pressed, and the alarm LED will illuminate red, indicating that the sounder is working and the batteries are providing power to the unit. The test for the sounder batteries and circuitry should be performed weekly

Testing the Sensor

- All sensor testing should be carried out by a responsible adult. This test should only be performed once a month. Excessive testing will cause the battery life to be shortened.

CO testers may be used in order to avoid having to burn cigarettes, incense sticks etc.

Please read all steps thoroughly before attempting to test your alarm.

- If the alarm is wall mounted, remove by unhooking the unit from the wall fixing screws.
- Cover the sounder vents with one hand and hold the Test/Reset button down with your thumb/finger until the power LED illuminates green and the sounder sounds for a second time. (This should happen after 5 seconds.) Release the Test/Reset button and the power LED will flash green once every second. This indicates that the sampling rate of the detector has increased and can be tested using a known source of CO.
- Light an incense stick or a cigarette using a match or a lighter. If using an incense stick, be sure to blow the flame out so that the incense stick is smouldering. Extinguish the lighter, or put out the match and place it into a dish of water.
- Turn the detector on its side so that the vents on the right hand side of the detector are pointing downwards. Hold the burning incense stick or cigarette around 15cm (6") below the detector. An increase in the localised carbon monoxide level within the sensor to more than 50ppm will cause the sounder to sound for one cycle of four loud beeps. The power LED will no longer flash green every second but will revert to flashing once a minute. The detector will revert back to the ordinary operating mode (it may take up to 2 minutes for the localised level of carbon monoxide to fall below 50ppm). Now move the source of CO away from the detector as the test is finished.
- Put out the incense stick or cigarette by placing it into a dish of water. Ensure all flames have been extinguished.

If the localised carbon monoxide level within the sensor does not reach 50ppm during the test, the sensor test will stop automatically after 3 minutes.

Understanding Your Product's Indicators

The higher the concentration of carbon monoxide detected by the detector, the quicker it will respond. When sufficient carbon monoxide is detected a loud audible signal (85dB at 1m/3ft) will be emitted and the alarm LED will flash red once every second.

The alarm will sound:

- Between 60 and 90 minutes when exposed to 50ppm of CO.
- Between 10 and 40 minutes when exposed to 100ppm of CO.
- Within 3 minutes when exposed to 300ppm or more CO.
- There will be an audible "chirp" if the battery, sensor or circuitry has any fault including a low battery. This sound will continue once a minute for 30 days. (The battery must be replaced to ensure occupant safety.)
- If the device continues to chirp despite having new batteries and the product is still in warranty then contact technical support for the device. If the device is no longer in warranty replace it immediately.

Maintaining/Testing Your Detector

Your detector will alert you to potential hazardous CO concentrations in your caravan when maintained properly. To maintain your FireAngel detector in proper working order and to ensure that the sensors will last for the lifetime of the product, it is recommended that you:

- Test the sounder, batteries and circuitry of your detector once per week by pressing and holding the Test/Reset button for 1 second.
- Keep the detector free of dust by gently vacuuming with a soft brush attachment when required.

To prevent the possibility of contaminating the sensor in your detector and thus affecting its reliability:

- Never use cleaning solutions on your detector. Simply wipe with a damp cloth.
- Do not paint the detector
- Do not spray aerosols on or near to the detector.
- Do not use any solvent based products near to the detector

Failure of any test should be reported to the manufacturer's technical support line.
+44 (0)800 141 2561

Do not attempt to repair your CO Detector. Do not remove any screws or open the main casing of your detector. Any attempt to do so may cause malfunction and will invalidate the warranty.

Never ignore any alarm.

What to Do in the Event of an Alarm

- Keep calm and open all the doors and windows to ventilate your caravan.
- Stop using all fuel burning appliances and ensure where possible they are turned off.
- Evacuate the caravan leaving doors and windows open.
- Do not re-enter the caravan until the alarm has stopped.
- Get medical help for anyone suffering the effects of CO poisoning and advise that CO poisoning is suspected.
- Do not use the caravan again until you have had a full service of all appliances by your supplying retailer. In the case of gas appliances they must be tested by a GAS SAFE registered installer. Please contact your Bailey retailer for more details.
- The electro-chemical sensors used in the carbon-monoxide alarm have a limited lifespan–therefore it is recommended that a CO alarm is replaced every 5–7 years after manufacture or in accordance with the unit's instructions. Check the manufacturing date on the alarm's label.

23. BATHROOM CARE

Do not expose the bathroom plastic fittings to cleaning products or abrasive material containing concentrated perfumes, body oil, linseed oil, gritty or abrasive substances, solvents (white spirits, antifreeze etc). These may cause permanent damage to the material. Always clean the bathroom straight away after use with warm soapy water and a soft cloth. Stubborn stains may be removed with a solution of lemon juice and water, at a solution of 1 part water to 1 part lemon juice.
Thetford bathroom cleaner is suitable for cleaning the shower and vanity unit plastic items (sinks, shower trays, Thetford toilets etc).

Domestic cleaning products are not to be used to clean the shower/vanity unit plastic items.
Some mouthwashes can cause plastic items to crack and for this reason should not be used.

Bathroom Shower Tap
Your shower tap has a high quality finish and should be treated with care to preserve the visible surfaces.
All surface finishes will wear if not cleaned correctly; the only safe way to clean your mixer is to wipe with a soft damp cloth.
Stains can be removed using washing up liquid.
All bathing powders and liquids will damage the surface of your fitting, even the non-scratch cleaners.

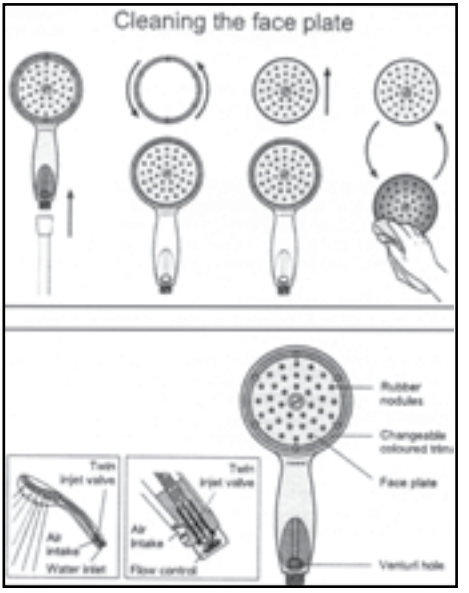
Mirrors
Cleaning: it is best to clean mirrors with a cleaner that does not contain ammonia. If you are not sure of the ingredients, spray a clean lint-free cloth with the cleaner so as not to get the liquid near to the edge of the mirror which is where ammonia would cause the most harm.

- Use a soft, dust-free cloth.
- Warm water- try bottled water if your tap water is mineral rich.
- For stubborn dirt use an oil free steel wool pad, carefully and precisely.
- Spray cleaners on your cloth, not directly onto the mirror.
- Keep the mirror frame dry.
- Never use a razor blade on a mirror, even if the mirror has paint specks on it. Always use hot water first.
- If you find black spots on your mirror you may have damaged the silvering behind the mirror's glass. If this is the case you may be able to cover the spots from the front.
- Moisture along a mirror's edge can seep in and harm the reflective backing.
- Keep in mind that long-term exposure to direct sunlight may damage some mirrors.

ECOCAMEL SHOWER HEAD

Your caravan is fitted with an Ecocamel shower head.

- It saves water, energy and money.
- It has a wipe clean head to prevent the build-up of lime scale
- Uses a maximum of 8 litres a minute.



After showering, when the shower is turned off, your Ecocamel shower head simply drains off any excess water through the air intake.
Clean your Ecocamel shower head with a damp cloth. Do not use any abrasive or chemical cleaners. Should any scale build up on your shower head's spray plate you can de-scale it by rubbing the nozzles with your thumb.

The Ecocamel shower head will fit all caravan showers and is available from the Bailey Parts department.

parts@bailey-caravans.co.uk.

24. THETFORD C260 TOILET

The toilet is made up of two parts: a permanently fixed part and a waste holding tank that is accessible from the outside. The removable waste holding tank is located under the toilet bowl and can be removed via a door on the outside of the caravan. The Thetford Cassette Toilet is the solution to the sanitary problem in your caravan.
These operating instructions cover Thetford Cassette Toilet C260 CWE.

Parts
1. Cover
2. Seat
3. Swivelling toilet bowl
4. Blade handle to open and close blade
5. Control panel
5a. Electric flush button
5b. Waste holding tank level indicator
6. Pull handle
7. Pour out spout
8. Cap with measuring cup
9. Automatic pressure release vent
10. Vent button
11. Sliding cover
12. Blade opener
13. Waste holding tank mechanism
14. Wheel
15. Service door
16. Water fill door
17. Console with flush-water tank
18. Filter for electric ventilator
19. Location waste pump-out system

Using The Toilet (Standard)
- Turn the bowl to the desired position with the lid closed and using both hands.
- To activate the control panel, press the flush-button once. The control panel display will stay activated for approximately 5 minutes. Run some water into the bowl by pressing the flush button again briefly.
- The toilet may be used with the blade open or closed. To open the blade, slide the blade handle under the toilet bowl sideways. After use, open the blade (if still closed) and flush the toilet by pressing the flush button for several seconds (if necessary re-activate the control panel). Close the blade after use. If your toilet has its own flush-water tank, please make sure that you do not travel with a flush-water tank that is too full. Do not travel with water in the toilet bowl. Failure to adhere to this notice may result in water damage to your caravan.

Cleaning and Maintenance
- The toilet should be cleaned and maintained regularly, depending on the amount of use. To clean Thetford toilets, we advise using water and Thetford Bathroom Cleaner. Never use bleach, vinegar or other powerful household cleaners that contain these substances. These may cause permanent damage to the seals and other toilet components.

Caravan Equipment
Toilet Bowl
- Squirt Thetford Bathroom Cleaner into the toilet bowl.
- Flush the toilet bowl with water and wipe down the rest of the toilet with a damp cloth.
- Clean seat and lid. The seat and lid can easily be removed: lift the seat and lid assembly and pull the round pins (inside the assembly) outwards from the pin holes. After cleaning, replace the seat and lid by positioning the round pins in front of the pin holes and push the lid and seat downwards.
- To keep your flush-water fresh and to prevent deposits forming in your toilet bowl, add a correct dosage of Aqua Rinse in your flush water tank.
- Tip! For a really shining toilet, dry with a soft dry cloth after cleaning.

Waste Holding Tank

To keep your waste holding tank fresh and clean, Thetford has developed a number of different toilet fluids. Thetford toilet fluids suppress smells, reduce formation of gas, promote breakdown of toilet waste and increase the life span of a mobile toilet. We advise a thorough cleaning of the waste holding tank once each season.

Next to using the Thetford's Cassette Tank Cleaner, which is the powerful cleaning agent for the periodical cleaning of the waste holding tank of your toilet, we suggest the following.

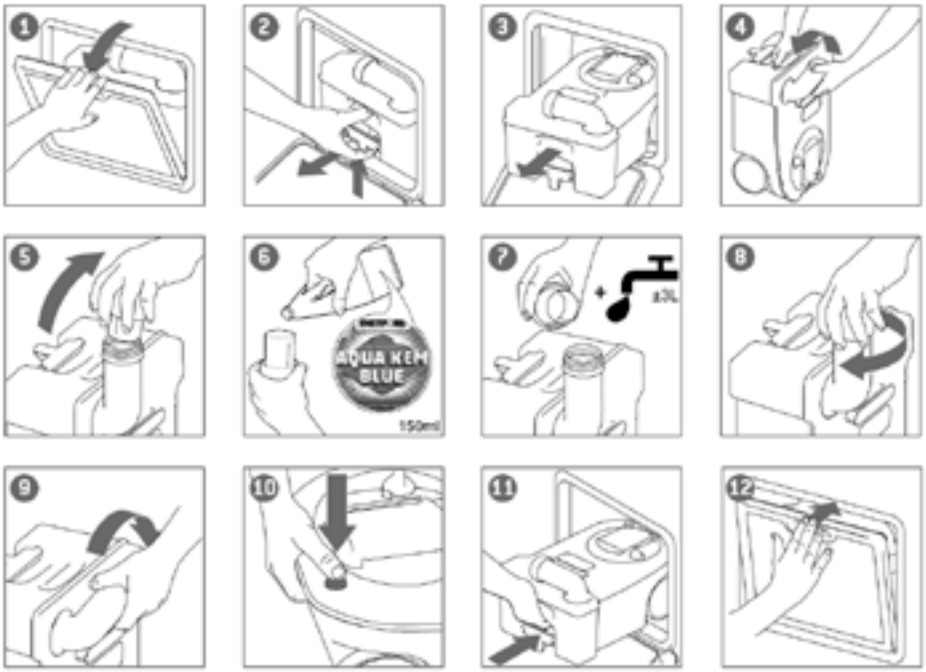
- Remove the removable mechanism from the waste holding tank by turning it anti-clockwise and rinse it under a tap.
- Remove the cover plate from the automatic pressure release vent by prising it up using a small screwdriver. Use one hand to push the automatic pressure release vent open while holding the float of the automatic pressure release vent on the inside of the tank with the other hand. Push the float upwards, turn it 180 degrees and remove it from below. Remove the rubber seal underneath the float. Rinse the float and rubber seal under a tap. Replace the rubber seal and float for the automatic pressure release vent using the same method in reverse.
- The rubber seals in the toilet (the lip seal, the mechanism seal, the automatic pressure release vent seal and the cap seal) should be regularly cleaned with water and treated with Thetford High Grade Seal Lubricant. This will ensure that the seals remain flexible and in good condition. If the toilet is not to be used for any length of time, it is important to treat the seals with Thetford High Grade Seal Lubricant after cleaning.

Never use Vaseline or any vegetable oil except olive oil. These may cause leakage or malfunction. The lip seal is a part of the toilet that is subject to wear. Depending upon the extent and manner of use, the seals will become less effective and will need replacing periodically.

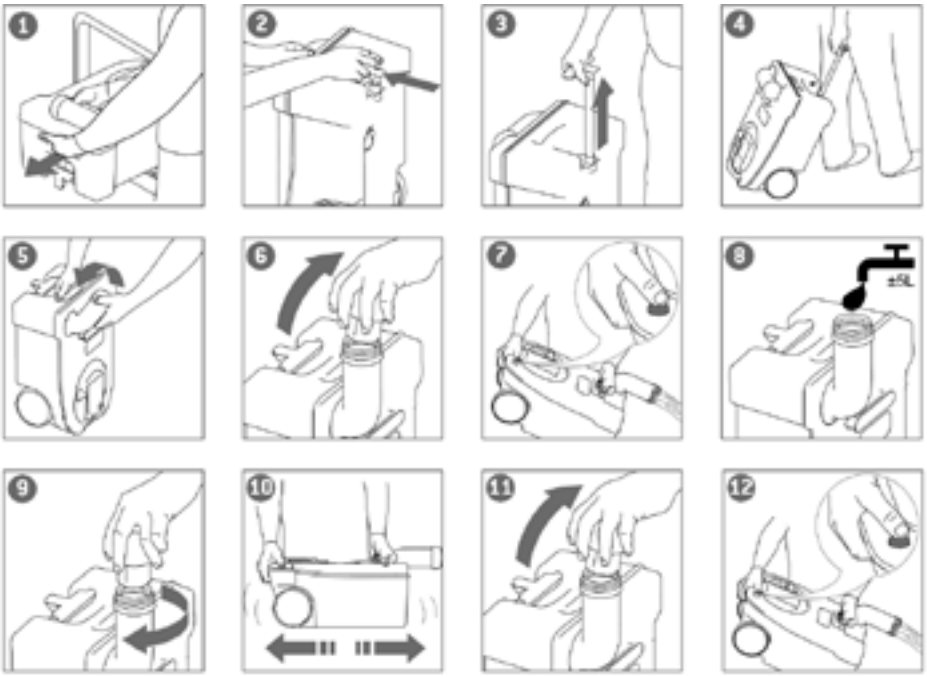
Winter Operation

You can use your Thetford Cassette Toilet as normal in cold weather as long as the toilet is situated in a heated location. If there is a risk of freezing we advise that the toilet is drained. For environmental reasons the use of antifreeze, such as that used in car radiators, is not recommended.

PREPARING WASTE HOLDING TANK



EMPTYING WASTE HOLDING TANK



Is this the best cost-saving energy device ever?

"We now get an average of three showers using a 40 litre water tank"

Sovereign Caravan Club

- ✓ Helps cut water & energy bills
- ✓ Gives you a luxurious, refreshing spa-like shower experience
- ✓ No plumbing required! Simply replaces your existing showerhead
- ✓ Lowers your carbon footprint
- ✓ Money back guarantee of satisfaction

British Invention and Design by Robin Whitfield

ECOCAMEL

POWERFUL SHOWER POWERFUL SAVINGS

IN PARTNERSHIP WITH **Bailey Touring Caravans** IN THE UK

Start enjoying your new powerful shower today and begin to save water, energy and money!

Call **0208 211 3666** or visit **ecocamel.co.uk**

Dometic PowerCare Tabs
for your toilet waste tank

Save weight

Save space

Save money

- → No spills
- → Pre-measured dosage
- → Tabs in soluble films
- → Easy storage
- → 16 tabs per tub

Environmentally friendly version also available

over 5 times lighter and half the size

than a standard 2 litre bottle of blue liquid for the same amount of toilet waste tanks

BE SMART AND MAKE THE CHANGE!

For further details please contact your local Bailey dealer or visit: **www.dometic.co.uk/toilet-tabs**

WATCH THE VIDEO
Search 'Dometic Tab Time EN' on YouTube

Dometic

25. SOFT FURNISHINGS

Carpet
When cleaning the interior of your caravan please remove the carpet from the vehicle.
Vacuum the carpets to take the dirt out of the pile.
For general cleaning use a dry shampoo, following the product's directions.

Never put the carpet in a washing machine or a tumble dryer.

Upholstery
Cleaning and Care
Remove dust on a regular basis with your vacuum's upholstery or drape attachment. Try to avoid brushing fabric covers because that can damage the pile.
If you spill something on your upholstery, blot up the excess immediately. Avoid detergents which may damage the fabric's protection. Use a sponge or a clean white cloth but do not wash or rub the fabric. Leave to dry in normal conditions. These actions will not affect the FR (Fire Retardant) treatment of the fabric.

Heavy soiling will require professional cleaning.

All fabrics will fade to some degree if exposed to direct sunlight, particularly natural fibres such as cotton etc.

Winterisation and Storage
Mattresses are made from fire retardant fabric and are of a honey core constriction based on solid foam with diamond cut out to perform like a spring It is recommended that mattresses be stored on edge during winter.
Try to keep your cushions away from direct sunlight.

Curtains
It is recommended that the curtains in your caravan are washed on a delicate cycle at 30°C. This will not damage the clip glides.
Shrinkage may be caused should you decide to dry clean your curtains.

Curtains should not be left closed during daytime otherwise some fading may occur.

26. REMIS BLINDS

REMIBASE PLUS WINDOW BLINDS.

Please note the blinds should not be in the closed position when the vehicle is travelling or when in storage for extended periods.

The sun screen is housed at the bottom and the fly screen at the top of the blind. To open hold the cross bar and pull up or down. Both blinds can be fully extended to totally cover the window or can meet at any position to give sun shading/privacy and protection from insects entering the vehicle.
The blinds are pre-set to the correct tension.
If re-tensioning is required please follow these steps:

- The blind needs to be taken down from the wall by un-screwing the 4 corner screws.
- Lay the blind face down on a table with the cross bars of both blinds meeting in the middle.
- The black cords re-tension the fly screen and the white cords re-tension the sun screen.
- The cords are fixed at either side with a screw. Loosen this screw and gently pull the cord 5mm tighter and repeat on the other side ensuring the cross bar is level.
- Test the tension. This process can be repeated if necessary.

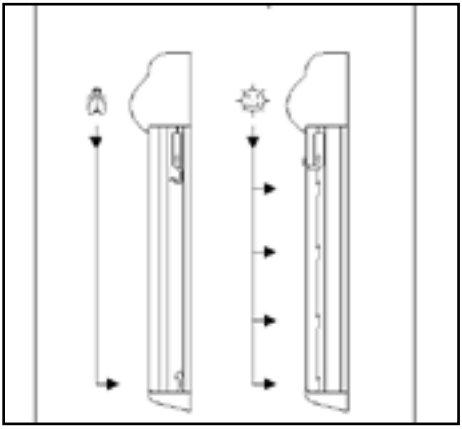
Cleaning
The plastic profiles can be cleaned with a non-abrasive cleaner and damp soft cloth. The blinds should only be dusted lightly with a soft cloth.

Keeping your Bailey Caravan
Nice & Cool in Summer
Cosy & Warm in Winter
with Springvale EPS
sustainable insulation products
Lifetime Performance • Environmentally Friendly • Outstanding Insulation Values
Visit www.springvale.com
to view our detailed solutions.
springvale
Sustainable insulation values

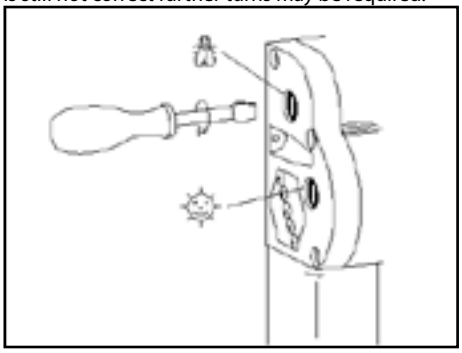
Remi Flair

Function

Both the sun screen and the fly screen are stored at the top. The sun screen can be pulled down and fixed at any of the stops in the side supports. The fly screen can be pulled down and fixed at the bottom of the side supports. When released from the fixing points the blinds will automatically retract. BEWARE: DO NOT ALLOW THE BLINDS TO RETRACT TOO QUICKLY AS THIS WILL CAUSE DAMAGE.



Re-tensioning. If this is required on either blind the screw head located on the side of the roller should be turned once and the blind tested. If the tension is still not correct further turns may be required.



Maintenance

The sun screen can be wiped with a non-abrasive cleaner as can the cassette holder. The fly screen can be cleaned with a soft brush.

Neither blind should be closed (in the down position) when the vehicle is being towed or in storage for prolonged periods.

27. GENERAL CARE AND MAINTENANCE OF YOUR CARAVAN

Exterior

The exterior of your caravan is very durable and easy to clean owing to its high gloss properties. To maintain a showroom finish, one needs only to wash the caravan and the parts monthly (or more frequently), using Care-avan Caravan Cleaner, but avoid using strong alkaline (e.g. tri-sodium phosphate) or acidic cleaners or abrasives. Waxing the components once or twice a year with a good grade paste wax will help to maintain the colour and finish.

Cleaning/Usage Information:

- Wash the caravan by hand, using a sponge with plenty of Care-avan cleaning solution to avoid scratching.
- Care-avan is available through your supplying Bailey Retailer or available to order direct via our Parts Direct website: www.bailey-parts.co.uk

- Always rinse away any cleaner from your caravan.
- Dry the vehicle with a chamois or microfibre cloth.
- It is imperative to ensure that the area surrounding the rooflight is completely dried; this will avoid both condensation and damp collecting around the perimeter.
- Where possible position the vehicle nose down for a short period to avoid water pooling and collecting on the roof area.

Do not

- Do not apply a carnauba-based wax to the vehicle.
- Do not use a mechanical brush washing system such as a car wash.
- Never pressure wash your vehicle.
- Do not use solvents.
- Do not use acrylic cleaners.

Under no circumstances use any abrasive agents, methylated spirit, white spirit or other solvents to the exterior of your caravan.

No touch up painting should be carried out prior to consulting a Bailey Service Centre for approved methods.

All items stored in the gas bottle storage locker must be secured to prevent impact damage to the inside of the body panel when the caravan is being towed.

Do not allow any chemicals to spill or leak into the gas box floor. Before placing items in the cradle ensure that the tray is clean and free from any debris. Cleaning should only be carried out with warm soapy water.

The use of high pressure water jets to clean your caravan will invalidate your warranty.

Acrylic Windows

The windows fitted to your Bailey caravan are manufactured from high quality acrylic using the latest plastic processing methods.

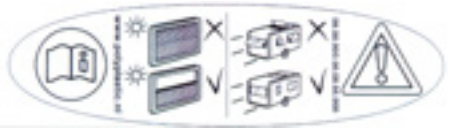
For cleaning, use generous amounts of water to wash away dust and road grit etc. Then use a soft cloth and warm soapy water and gently remove the remaining dirt. Avoid abrasive cleaning materials and detergents.

As with all plastic materials, acrylic should not be allowed to come into contact with chemicals such as paint remover, fly spray, acetone, dish washer detergent and car cleaning detergent.

Never polish with a dry cloth.

During high sun do not close the window blinds completely and open the windows into the ventilation position.

While the caravan is in motion please ensure that the windows are fully closed (this information is also detailed on stickers on the windows).



Dependent on the temperature inside the caravan compared to that outside, condensation may be experienced between the window panes. This is a perfectly normal occurrence as the windows are not sealed units. To disperse condensation remove the bungs, using a pair of blunt end tweezers, in the corners of the window unit (preferably on a warm day) until the condensation disperses and then replace the bungs.

Window Catches and Stays

Turn catch arm to the vertical position to open. A night vent position is available by depressing the locking knob and locating the catch into the outer catch plate slot.

The windows are held open by an adjuster knob; tightening the knob in a clockwise direction will hold the window open in the desired position.

Always ensure the knob is unscrewed before closing the window. Failure to do so may cause damage to the window stay arm.

Always ensure that windows are fully closed during wet weather and not on night vent settings.

Humidity

Air contains moisture.

The higher the temperature of the air, the more water it is able to hold. Air at 20°C can hold a lot more moisture than air at 10°C. The term "relative humidity" describes how much moisture air contains at a given temperature. 100% relative humidity means the air is holding as much moisture as it can at that temperature.

The more humid the air in your caravan, the more energy it takes to heat because the water in the air is also being heated.

A good range of indoor humidity for comfort and health is between 30 and 60% during cooler months of the year. Mould is likely to occur if the relative humidity indoors is 70% or more for long periods of time. Keeping humidity levels under 50% also helps to minimise or control dust mites.

Condensation

When the humidity is high inside a van and it is cold outside water vapour condenses on cold surfaces.

Possible causes of condensation

Lack of adequate heating or ventilation

- Water coming in from the outside through leakage, seepage or open windows
- High levels of moisture/water vapour being produced inside the caravan

Humid air and condensation can also be generated by things people do on a daily basis.

- Cooking: up to 3 litres per day
- Showers: 1.5 litres per person
- Washing dishes: up to 1 litres per day
- Breathing: active adult 0.2 litres an hour.
- Breathing, adult asleep: 0.02 litres an hour.

How to Keep Your Caravan Dry and Avoid Condensation

There are lots of things YOU can do to minimise dampness and condensation in your caravan.

The key actions:

- Provide ventilation and/or reduce relative humidity of air, particularly in moisture-prone periods of year (especially winter time) and when the moisture is produced in the van (cooking, shower)
- Reduce the amount of moisture produced in the van
- Increase heating to raise the temperature of the air and the cold surfaces

On dry days open some windows to allow humid air to ventilate out of the van. It is better to open a few windows a little throughout the whole caravan. This helps the air to move through the caravan. One window open wide may not be as effective. Try to do this as often as possible (at least once a week), but keep windows closed on wet days as damp air may increase indoor humidity.

High Temperatures

High temperatures can also damage the surfaces of your worktops. Protect them with protective table pads or place-mats when using hot utensils or dishes.

Furniture

Moisture in the air can cause damage to furniture as the wood expands or contracts with an increase or decrease in the relative humidity. A relative humidity of between 40% and 60% is tolerable. If values are maintained outside this range for a sustained period damage to the furniture may occur.

To prevent damage, assure relative humidity of air is not too high.

The damage can be visible if the relative humidity is higher than 80% for a long time. To prevent damage, ventilate the van, using dehumidifiers or water absorbent substances.

When wood is wet, wipe it dry. Do not just wait for the sun to dry it. The longer the water stays on the surface, the more damage it can do.

Defects caused by swelling, bowing, twisting or de-laminating generated by high temperature or high relative humidity of air will not be accepted as warranty.

28. WINTERIZATION & STORAGE

The following applies whenever your caravan is stored, particularly during winter months.

- If you will not be using your vehicle for a while it is probably a good time to arrange for your caravan to have its annual service at your appointed dealer.
- As with all caravans it is a good idea to store the caravan with the nose down; this will avoid any water pooling on the roof.
- Do not leave your vehicle near trees or latch-type gates due to possible wind damage.
- Keep any grass around the floor of the caravan short to maintain airflow and stop any possible damp getting into it.
- It is advised that the caravan is ventilated regularly throughout the winterization/ storage period, opening windows, doors and rooflights where possible.
- All moving parts should be checked for free operation.
- Clean all cooking appliances and the refrigerator before parking up the vehicle.
- Charge up the on-board battery every 2 months.
- Leave the refrigerator door open. Leave the furniture and locker doors open to allow air to circulate fully.
- Ensure that the entire water system is thoroughly drained.
- Make sure that all plumbing pipes, drains, and water supply appliances within the caravan are properly drained.
- Remove the battery from the caravan to keep it warmer. If the battery cells were to freeze this could cause damage to the cells and decrease the life of the battery.
- Try to cover as much as possible of the underside of the caravan to prevent snow from collecting and packing up underneath. This will help to prevent damage to the tyres due to weather conditions.
- Apply a lubricant to any of the locks to avoid them from freezing up. This will allow you access to your caravan if it is needed.

29. MODIFICATIONS & DIY WORK

Owners need to be aware that carrying out DIY modifications to your caravan may, in certain circumstances, invalidate the warranty cover and could also affect the safety and structure of the vehicle.

30. CARAVAN KEYS

Each Caravan is supplied with 2 identical keys. In the event of both keys being lost these cannot be replaced. In this instance a new lock will have to be fitted with a fresh set of keys.

All Pegasus IV and Pursuit models have 2 extra keys these are for the exterior locker and storage doors.

31. SPARES & AFTERSALES

There are numerous parts and accessories available for your caravan either from your Bailey retailer or through the Bailey Parts website. You are more than welcome to contact the parts website for anything you may require. However, if it is a safety or warranty-critical item you will need to obtain it from your Bailey retailer who will fit the component for you.

www.bailey-parts.co.uk

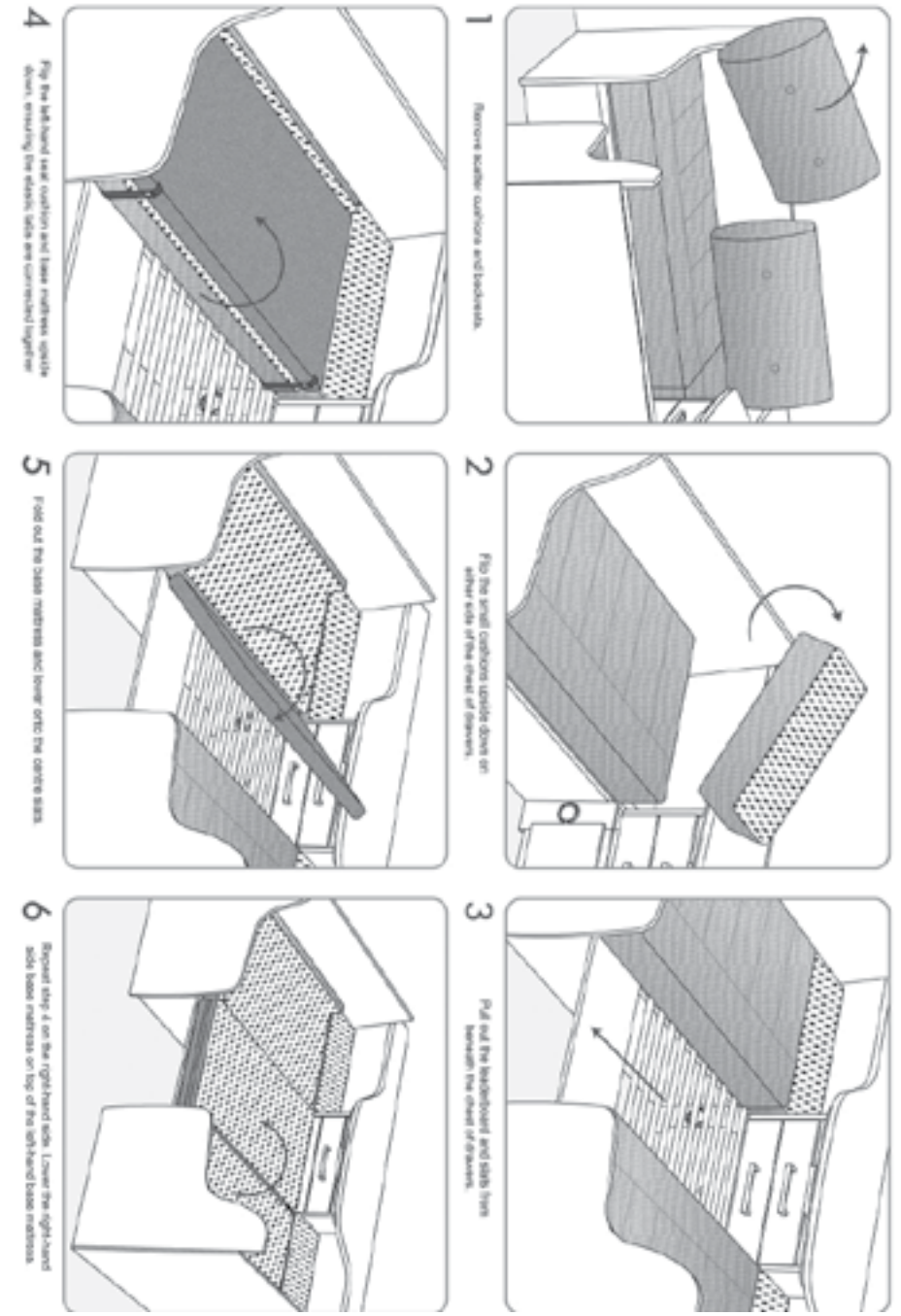
REMIS

ideas

for smart caravaning

www.remimobil.de

32. DREAM SLEEP MAKE UP


1
Remove scatter cushions and backrests.
2
Flip the small cushions upside down on either side of the chest of drawers.
3
Pull out the lesser-used end slats from beneath the chest of drawers.
4
Flip the left-hand seat cushion and base mattress upside down, ensuring the elastic side are connected together.
5
Fold out the base mattress and lower onto the centre slats.
6
Repeat step 4 on the right-hand side. Lower the right-hand side base mattress on top of the left-hand base mattress.

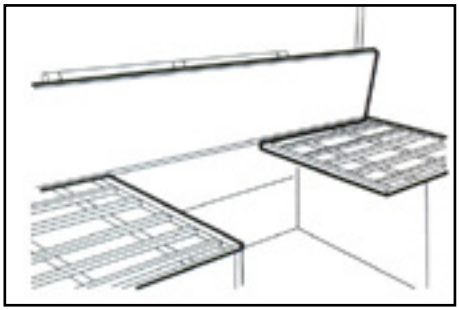
33. RETRACTABLE BED ASSEMBLY

This is only applicable on some models.

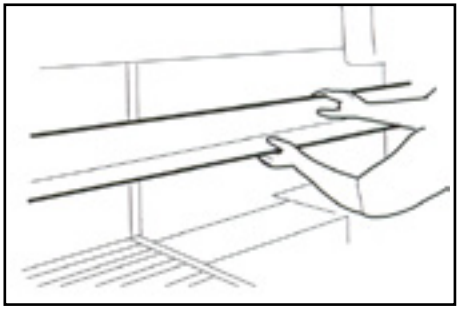
Step 1: To raise the bed, lift the section of the mattress nearest to the headboard and flip it forward. Then push the frame backwards to shorten the bed length. Flip the mattress up to create a relaxed seating position.

Step 2: To lower the bed, flip the mattress forward again and then pull the bottom of the bed frame towards you until the bed is completely flat. Push the mattress over to make a flat sleeping area.

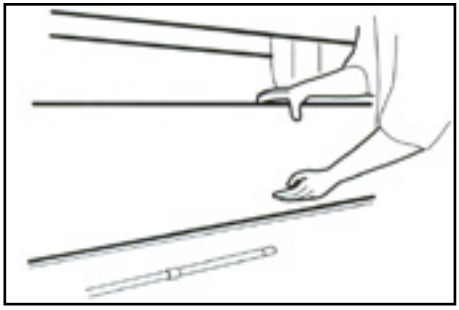
34. SIDE DINETTE TOP BUNK ASSEMBLY



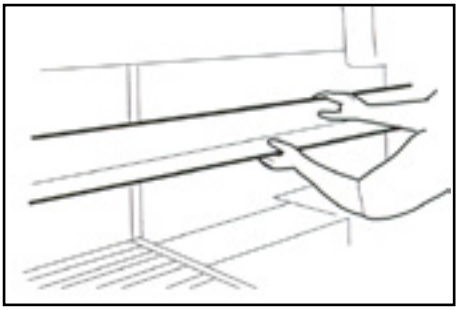
Step 1: Remove the cushions, draw the curtains and close the blind if fitted.



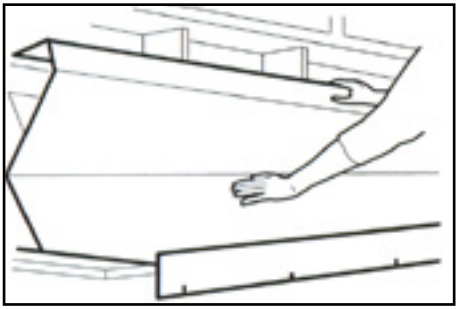
Step 2: Holding the bunk in both hands pull it inwards.



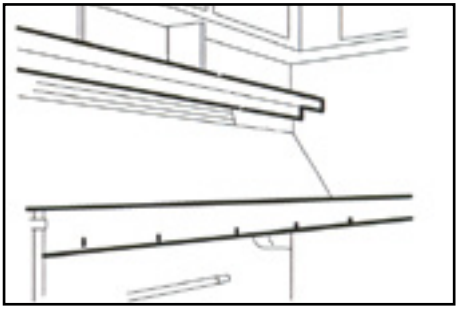
Step 3: While lifting upwards.



Step 4: The bunk mechanism will automatically lock in the up position.



Step 5: Release retaining strap on the underside of the bunk base. The second half of the bunk base can now be unfolded towards the caravan wall.

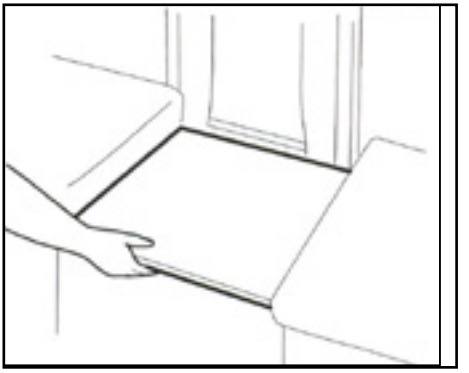


Step 6: Turn the turn-buckle catches located on the metal bunk legs to ensure that the bunk cannot be folded by pushing up from below.

Step 7: The safety rails and ladder can now be slotted into position.

Step 8: Check the security of the bunk and replace the cushions before allowing a person to use the bunk.

35. SIDE DINETTE BOTTOM BUNK ASSEMBLY



Step 1: Remove the table from the support leg.

Step 2: Place the table top between the seats on the ledge.

Step 3: Arrange the seat cushions as appropriate.

When children, especially those under 3 years of age, use any bunk/bed, care must be taken against the risk of them falling out.

36. USEFUL E-MAIL ADDRESSES AND TELEPHONE NUMBERS

Bailey Customer Services	customerservices@baileyofbristol.co.uk
Bailey spares department	parts@baileyofbristol.co.uk
Criss	+44 (0) 203 282 1000
Michelin Tyre PLC	+44 (0)845 366 1535
AL-KO	+44 (0)1926 81 8500 mail@al-ko.co.uk
Fire Angel	+44 (0)800 141 2561 technicalsupport@fireangel.co.uk
Dometic	+44 (0)844 626 0130 technical@dometic.co.uk
Vision Plus Customer Helpline	+44 (0)115 986 7151
Alde	+44 (0)1933 67 7765 www.alde.co.uk
Whale	+44 (0)845 217 2933 (Heating System) +44 (0)28 9127 0531 (Water System) info@whalepumps.com
Wheel Solutions Ltd	+44 (0)1543 87 0170 info@wsl.uk.com

Clubs

The Caravan Club	+44 (0)1342 32 6944 www.caravanclub.co.uk
The Camping and Caravanning Club	+44 (0)845 130 7631 www.campingandcaravanningclub.co.uk
The National Caravan Council	+44 (0)1252 31 8251 www.nationalcaravan.co.uk